ORDER NO. EMID951577
A4

Service Manual

PCM Digital Piano

SX-PX207/207M

(M), (MC), (XM), (EN), (EH), (EF), (EZ), (EW), (EA), (EP), (EK), (XL), (XR), (XS), (XD), (XT), (X), (XP)

AREAS

(M): U.S.A.
(MC): Canada
(XM): Mexico
(EN): Norway, Sweden, Denmark, Finland
(EH): Holland, Belgium
(EF): France, Italy
(EZ): Germany
(EW): Switzerland
(EA): Austria
(EP): Spain, Portugal, Greece
(EK): the United Kingdom
(XL): New Zealand
(XR): Australia
(XS): Malaysia, Singapore, South Africa
(XD): Saudi Arabia, Hong Kong, Kuwait
(XT): Taiwan
(X): Thailand, Indonesia, Iran, U.A.E., Panama, Argentina, Peru, Brasil
(XP): Philippines

PANA -08728

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

■ Specifications

CABINET	SX-PX207: BLACK, SX-PX207M: WALNUT
KEYBOARD	88 KEYS (MAX. POLYPHONIC 64 NOTES)
SOUNDS	GRAND PIANO, UPRIGHT PIANO, ROCK PIANO, VIBES, STRINGS, VOCAL, E PIANO 1, E PIANO 2, HARPSI, PIPE ORGAN
PEDAL	SOFT, SOSTENUTO, SUSTAIN
BRILLIANCE	MELLOW, BRIGHT (5 STEPS)
DIGITAL EFFECT	○
DIGITAL REVERB	○ (ROOM, STAGE, HALL, CONCERT)
TOUCH SENSITIVITY	LIGHT, NORMAL, HEAVY
TRANSPOSE	G–C–F#
TUNING	427.3–440.0–453.0 Hz
METRONOME	○ (TIME SIGNATURE: OFF, 2/4, 3/4, 4/4, 5/4, 6/8)
SEQUENCER	TRACK (1, 2), STORAGE CAPACITY: APPROX. 4000 NOTES, RECORDING MODE: REAL TIME
DEMO	○
MIDI	MULTI TIMBRE, LOCAL CONTROL, OMNI ON, PROGRAM CHANGE, PEDAL, EFFECT, TRANSPOSE
MODE SET	PIANO TUNING, MINIMUM RANGE
OTHERS	POWER SWITCH, MAIN VOLUME, MIDI TERMINALS (IN, OUT, THRU), PEDAL IN, AUX IN (R/R+L, L), LINE OUT (R/R+L, L), HEADPHONES ×2, AC IN, INITIAL KEY
OUTPUT	60W × 2
SPEAKERS	14 cm × 2, 12 cm × 2, 6.5 cm × 2

Technics

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POWER REQUIREMENT	260W 170W (NORTH AMERICA AND MEXICO)
	AC 120/220/240 V 50/60 Hz AC 120 V 60Hz (NORTH AMERICA AND MEXICO) AC 230 V 50/60Hz (NEW ZEALAND) AC 230-240 V 50/60Hz (EUROPE)
DIMENTIONS (W × H × D)	138.7 cm × 109.2 cm × 50.9 cm (54-19/32" × 43" × 20-1/32")
NET WEIGHT	66.0 Kg (145.5 lbs.)
ACCESSORIES	AC CORD, STAND

*Specifications are subject to change without notice for further improvement.

WARNING

To prevent the risk of fire, smoke, or electrical shock and to ensure safe operation, please be sure to follow the safety guidelines below.

1. At places where special caution is required, the necessary safety precautions are clearly labeled or printed, for example, on the cabinet, or on the part concerned. Please follow these safety precautions, and also those listed in the Owner's Manual.

2. Parts which have a ⚠ mark in the circuit diagram or in the parts list are essential for safety. When replacing these parts, be sure to use only the specified parts.

3. Use the specified types for internal wiring (double-insulated wiring, etc.).

4. When replacing parts on the AC primary side (power transformer, electric switch, electrical cord, noise-prevention condenser, etc.), wind the lead wire and secure it by soldering.

5. Do not let the wiring come into contact with heat-emitting devices (fuse resistor, radiator plate, etc.).

6. When replacing the wiring, make sure that it is not in contact with the unfinished or rough edge of a part.

7. When replacing the power cord (except for the plug-in type), tug it from various directions to confirm that it does not slip out of place.

8. Spacing
   If soldering was done on the AC primary circuit, confirm that the interval between the soldered terminals or between the terminal and surrounding metallic parts is at least the minimum required (Between the primary circuit and the chassis: at least 6.5 mm; between primary circuit terminals: at least 4.0 mm; between primary circuit terminals and secondary circuit terminals: at least 6.5 mm.).

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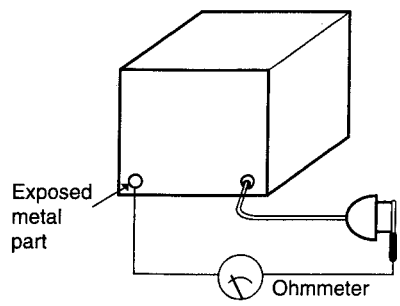
SAFETY PRECAUTION

● Safety Precaution

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only the manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc..
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

● Insulation Resistance Test

1. Unplug the power cord and short the prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screw heads, connectors, control shafts, handle brackets, etc..Measurements should range from 4 MΩ to infinity for all exposed parts.

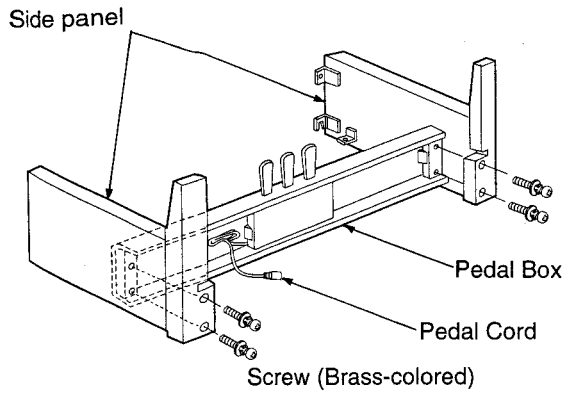


Resistance = 4MΩ to ∞

HOW TO ASSEMBLE THE PIANO

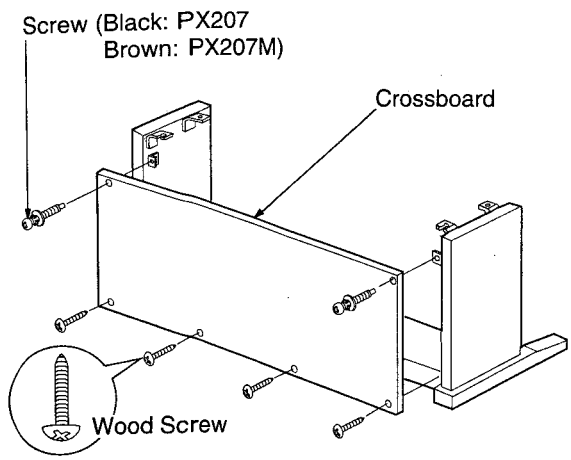
To prevent the piano unit from falling off the stand, secure it firmly with the screws.

1 Assemble the side panels and the pedal box with the 4 brass-colored screws.



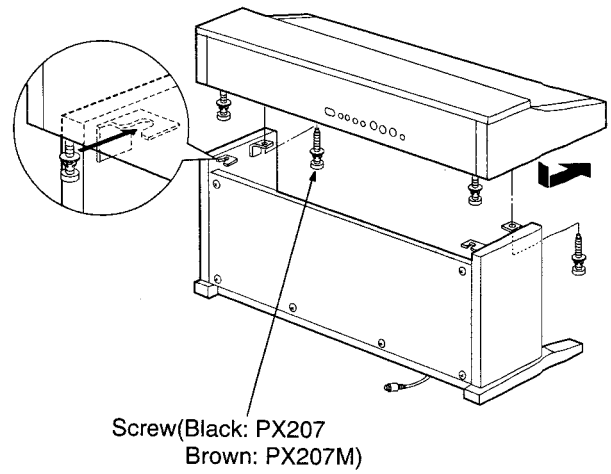
[Fig. 1]

2 Affix the rear panel.



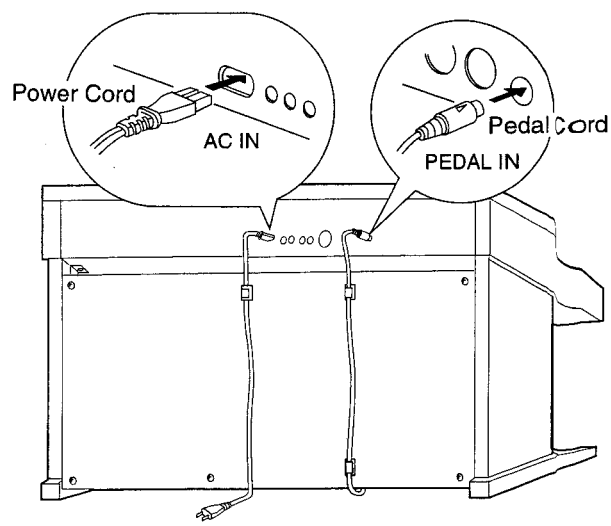
[Fig. 2]

3 Place the piano unit on the stand and secure it to the stand.



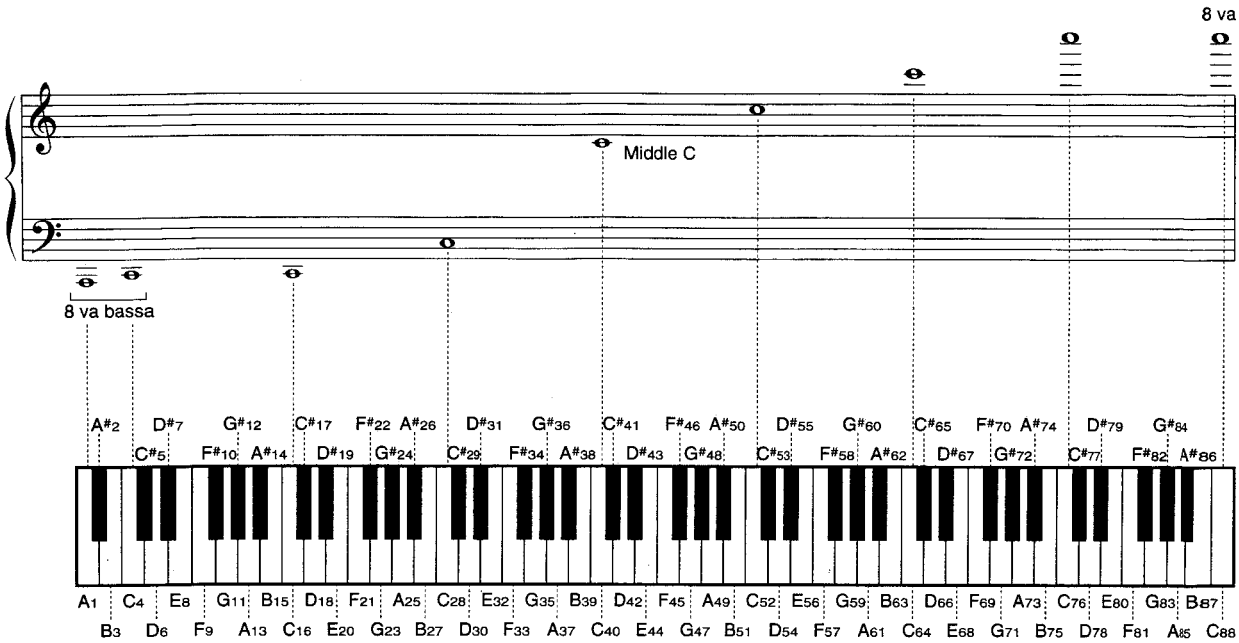
[Fig. 3]

4 Connect the pedal cord and power cord to their sockets located rear of the piano unit as shown below.



[Fig. 4]

KEYBOARD RANGES



INITIAL SETTING

The initial setting function is used to return to the original factory settings, and to reset the customer settings and misoperations. The selected sound and various functions, MIDI settings and **SEQUENCER** contents are initialized with this operation.

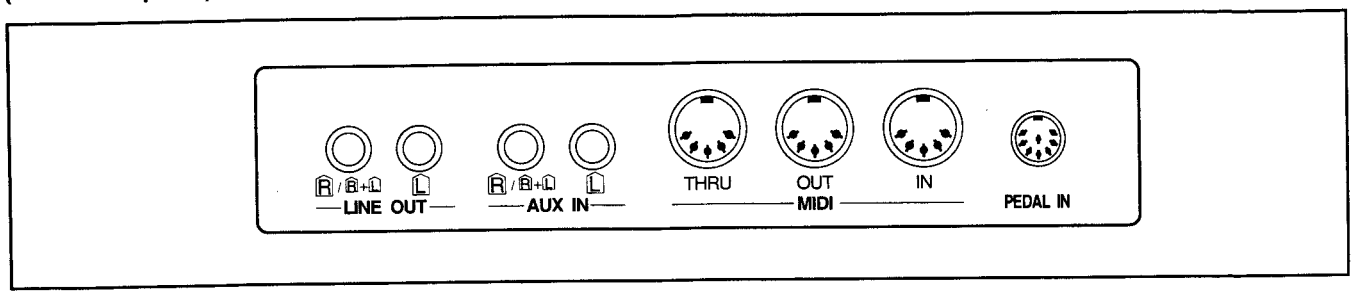
■ **INITIAL SETTING**

Press the **INITIAL** key while the **MODE SET** button is pressed. Or turn on the **POWER** switch while pressing the **INITIAL** key.

1. While pressing the **MODE SET** button.
2. Press the **INITIAL** key.

TERMINALS

(on the rear panel)



LINE OUT (output level 1.5 Vrms, 600 Ω)
By plugging into an external high-power amplifier, the sound can be reproduced at a high volume. Or connect a tape recorder and use them as recording terminals. To output monaural sound, connect the external equipment to the **R/R+L** terminal. (Do not connect the **L** terminal.)

AUX IN (input level 0.5 Vrms, 6 kΩ)
Other instruments such as a rhythm machine or sound module can be connected to the piano so that the sound is output from the piano. To receive monaural sound, connect the other instruments to the **R/R+L** terminal. (Do not connect the **L** terminal.)

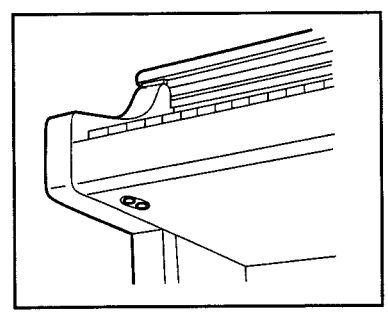
MIDI (Musical Instrument Digital Interface)
MIDI is the standard specification that enables connection to equipment such as synthesizers and personal computers.

IN : The terminal that receives data from external equipment.
OUT : The terminal that transmits data from this instrument to external equipment.
THRU: The terminal that transfers data from the **IN** terminal directly to other equipment.

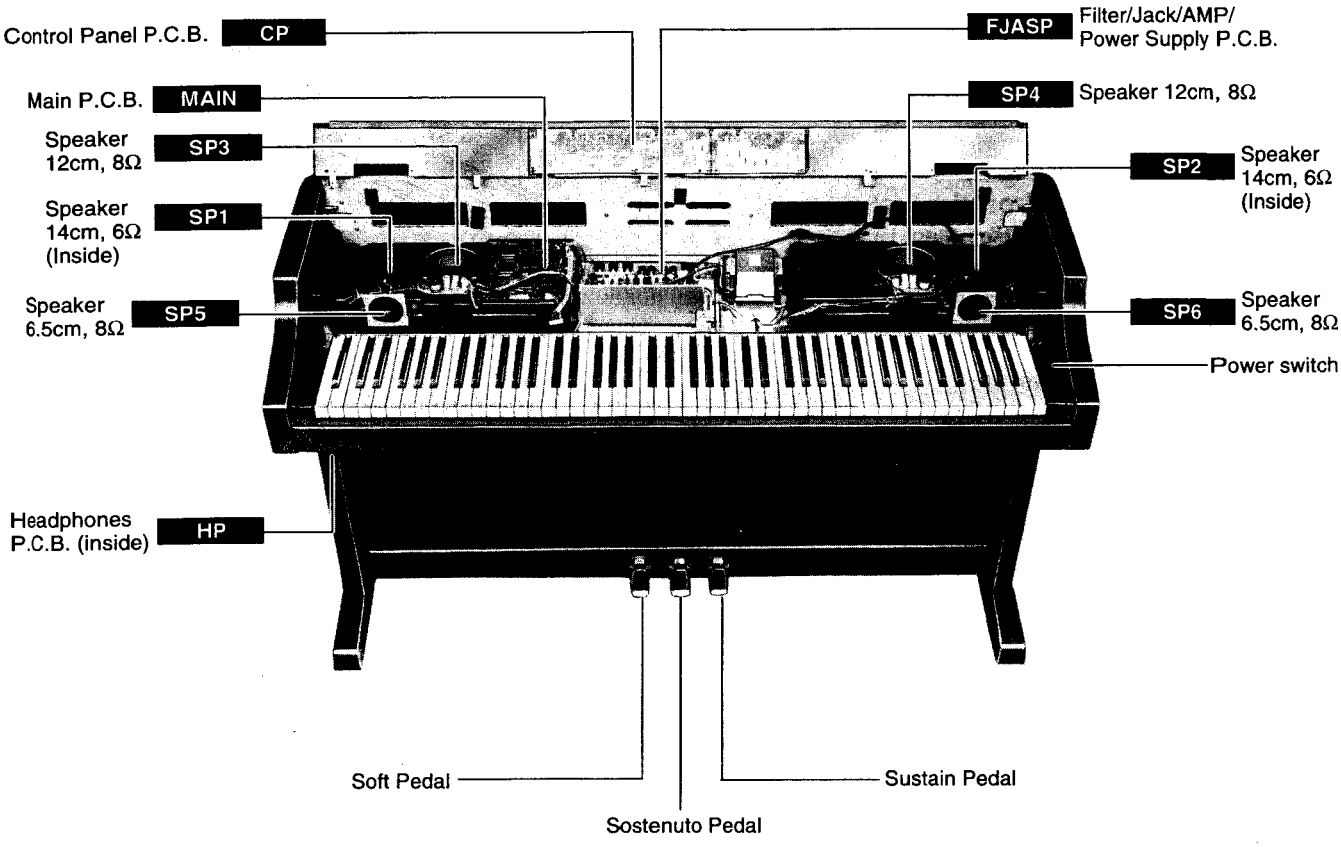
- Use a 5-pin DIN cord (less than 15 m long) for these connections.

PEDAL IN
Connect the cord from the included stand to this terminal.

HEADPHONES×2
For silent practice, headphones may be used. When plugged in, the speaker system is automatically switched off, and sound is heard only through the headphones.



PARTS LOCATION



[Photo-1]

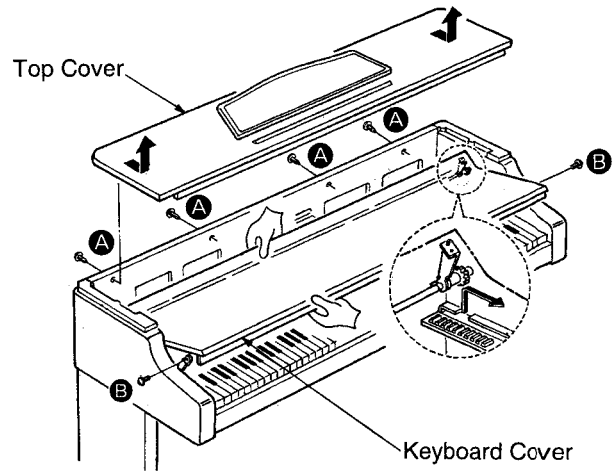
DISASSEMBLY INSTRUCTIONS

1 Removing the top cover

1. Remove the top cover holding screws (Ⓐ 4 pcs.).
2. Slide the top cover forward and lift up.

2 Removing the keyboard cover

1. Remove the top cover (see Step 1).
2. Remove the keyboard cover holding screws (Ⓑ 2pcs).
3. Close the keyboard cover completely so that the gears at the rear of the keyboard cover become free from the guide rails.
4. Lift the keyboard cover up.



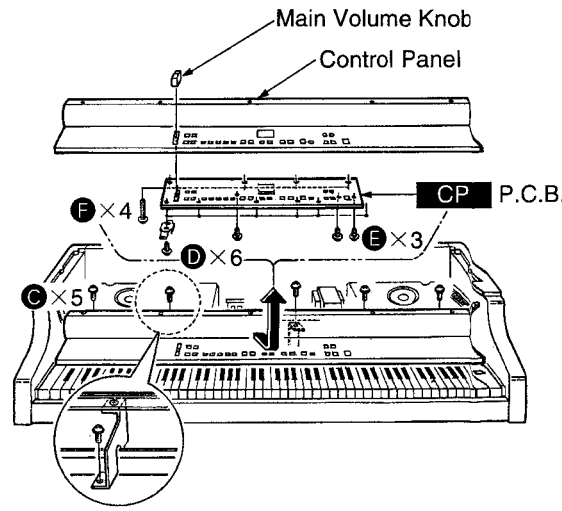
[Fig.5]

3 Removing the control panel

1. Remove the top cover and keyboard cover (see Step 1, 2).
2. Remove the control panel holding screws (Ⓒ 5 pcs.).
3. Remove the control panel as shown in Fig. 6.

4 Removing the CP P.C.B.

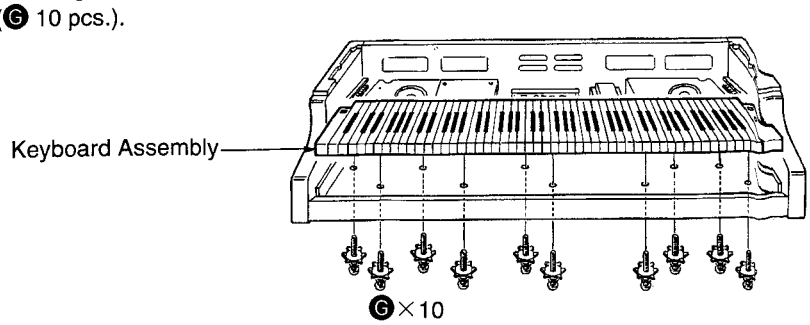
1. Remove the control panel (see Step 3).
2. Remove the main volume knob.
3. Remove the CP P.C.B. mounting screws (Ⓓ 6 pcs., Ⓔ 3 pcs., Ⓕ 4 pcs.).



[Fig.6]

5 Removing the keyboard assembly

1. Remove the control panel (see Step 3).
2. Remove the keyboard assembly holding screws located on the bottom of the cabinet (Ⓖ 10 pcs.).



[Fig.7]

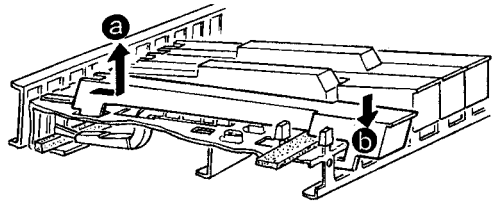
6 Keys (s)

Disassembly

1. Remove the keyboard assembly (see Step 5).
2. To release the key claw.
   ⓐ Press the front of the key downward slightly.
   ⓑ Press the rear of the key forward gently.
3. To remove the key, lift as shown in Fig. 8.

NOTE:

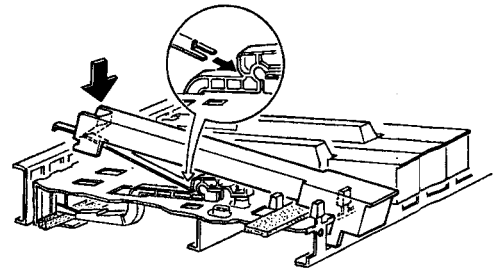
- The key claw is easily broken. Do not apply undue force. Should a key claw break, it can still be used; however, a replacement is recommended.
- If a black key is to be replaced it is necessary to remove both adjacent white keys.



[Fig.8]

Assembly

1. Insert the front part of the key into the chassis.
2. Insert the plate spring into the hammer notch as shown in Fig. 9.
3. While slowly lowering the key into the chassis, insert the plate spring into the notch at the rear of the key.
4. Carefully insert the key into the opening in the chassis and slide the key towards the rear to lock it in place.



[Fig.9]

7 Removing the speaker box and speaker

•Removing the speaker box

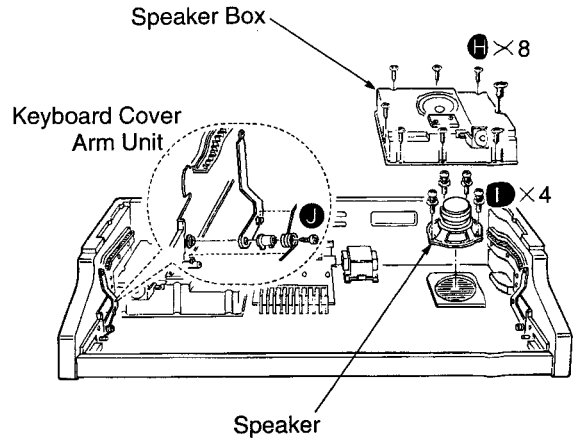
1. Remove the keyboard assembly (see Step 5).
2. Remove the speaker box holding screws (ⓗ 8 pcs.).

•Removing the speaker

1. Remove the speaker box.
2. Remove the speaker holding screws (ⓘ 4 pcs.).

Disassembly of the keyboard cover arm unit

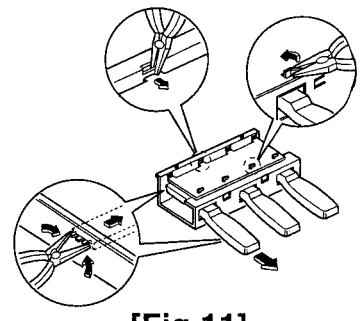
1. Remove the keyboard assembly (see Step 5).
2. Remove the keyboard cover arm unit holding screw (ⓙ 1 pc.).



[Fig.10]

8 Disassembly of the pedal assembly

1. Remove the pedal assembly from the pedal box.
2. Disassemble the pedal assembly as shown in Fig. 11.



[Fig.11]

9 Removing the printed circuit boards

•Remove the top cover and keyboard cover (see Step 1, 2).

MAIN P.C.B.

1. Remove the MAIN P.C.B. mounting screws (K 4 pcs.).
2. Release the claws of the P.C.B. holders.

FJASP P.C.B.

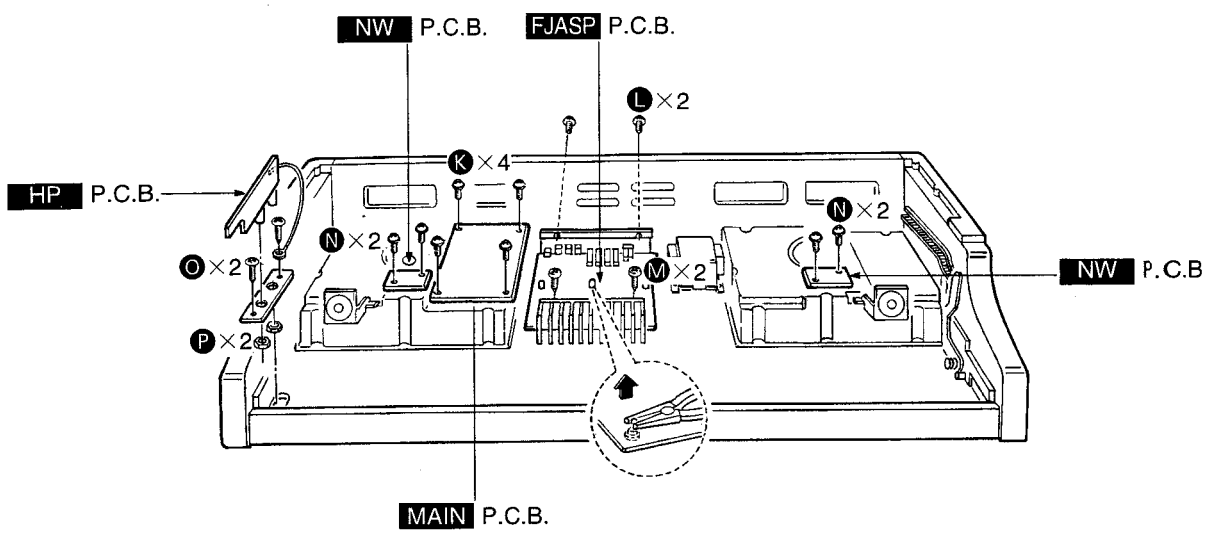
1. Remove the FJASP P.C.B. mounting screws (L 2 pcs., M 2 pcs.).
2. Release the claws of the P.C.B. holder.

NW P.C.B.

· Remove the NW P.C.B. mounting screws(N 2 pcs.).

HP P.C.B.

1. Remove the keyboard assembly (see Step 5).
2. Remove the headphone jack mounting screws and nuts (O 2 pcs., P 2 pcs.).



[Fig.12]

SYMPTOMS WHICH APPEAR TO BE SIGNS OF TROUBLE

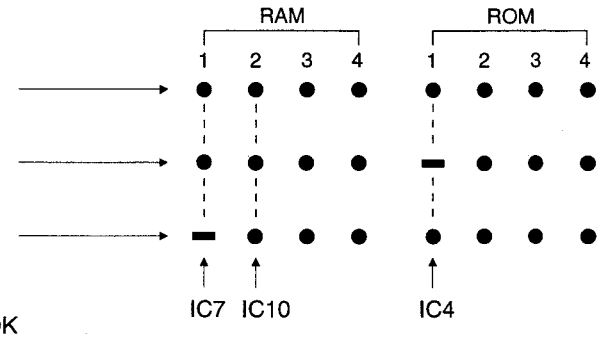
Phenomenon	Remedy
No sound is produced when the keyboard is played.	•No sound is produced if the **MAIN VOLUME** is set to **MIN**. Use the sliding control to set the volume to an appropriate level. •If the MIDI LOCAL CONTROL is set to off, set it to on.
Nothing is shown on the display.	•The metronome, **SEQUENCER** tempo, etc. are indicated on the display. During normal performance, however, the display is off.

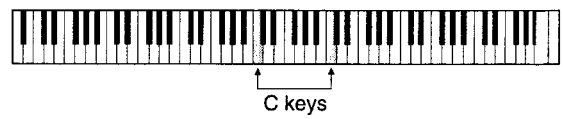
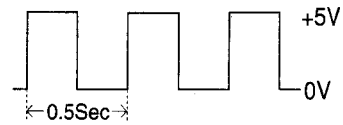
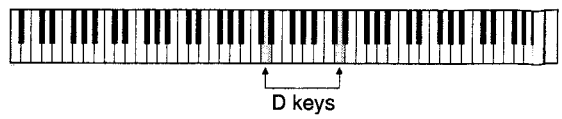
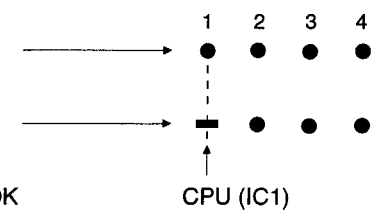
■About the back-up memory

The selected sound and various functions, and MIDI settings remain in the memory for about one week after the **POWER** is turned off. If you wish to return all memories and settings to their factory preset status, while pressing the **MODE SET** button, press the **INITIAL** key on the keyboard. Or, press the **POWER** on and hold the **INITIAL** key at the same time.

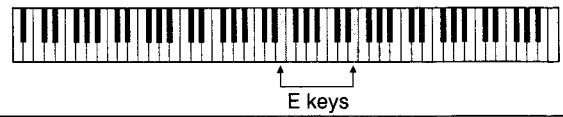
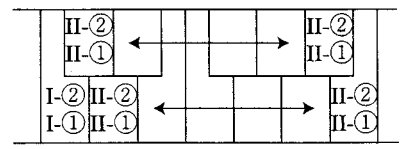
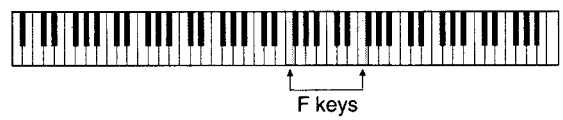
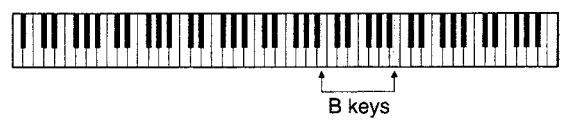
ABOUT THE SELF-DIAGNOSTIC FUNCTION

This model has some self-diagnostic capabilities. When set to the self-diagnostic mode, operation of various components can be verified by following the procedures in the chart below.

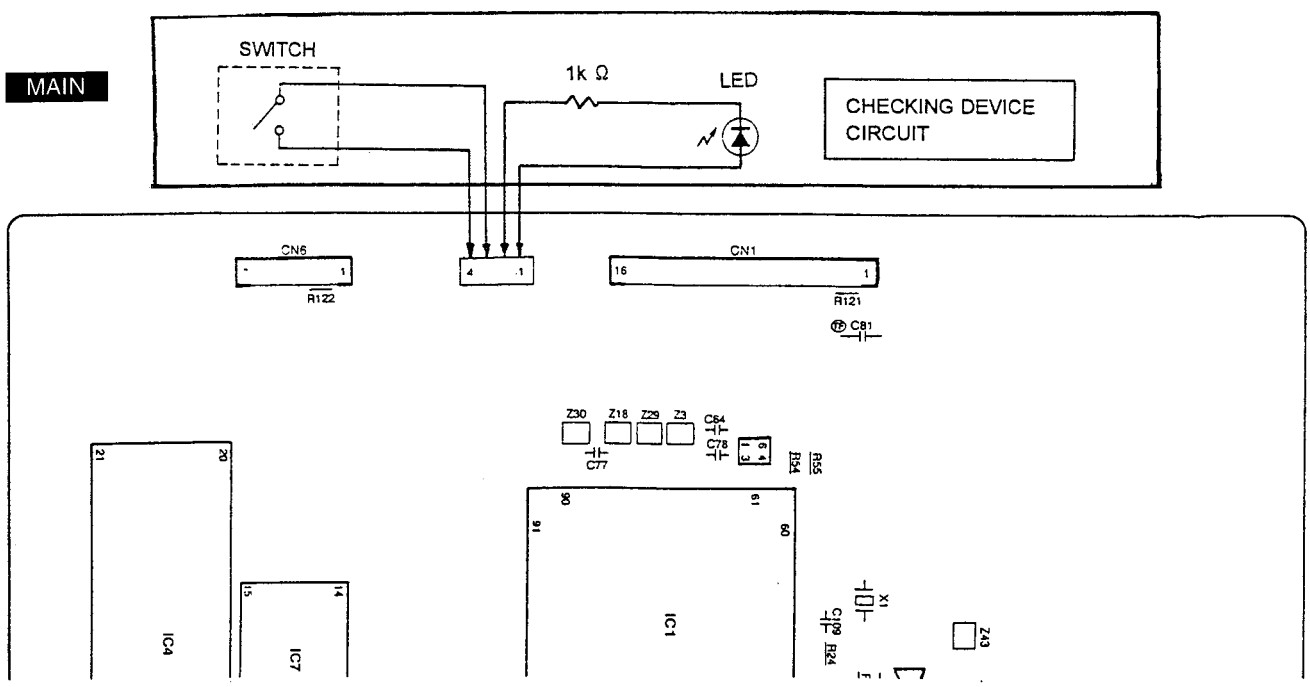
<table>
<tr><th>No.</th><th>PCB</th><th>TEST MODE</th><th>Procedure</th></tr>
<tr><td rowspan="2">1</td><td rowspan="2">MAIN</td><td>RAM (IC7, 10), ROM (IC4) check</td><td>1. Connect the CHECKING DEVICE (refer to page I-13) to CN 7 on the MAIN P.C.B., and turn on the CHECKING DEVICE switch.
2. Turn on the power switch.</td></tr>
<tr><td colspan="2">When the power switch is turned on, the LED of the CHECKING DEVICE flashes 8 times. The first 4 flashes are for the RAM check, and the latter 4 flashes are for the ROM check. The order of the LED flashes corresponds to the respective IC numbers as shown below. If an IC is defective, the corresponding flash time is longer.
Examples
1. RAM OK, ROM OK
2. RAM OK, ROM (IC4) defective
3. RAM (IC7) defective, ROM OK
 

NOTE : ● indicates short flash time = OK
▬ indicates long flash time = Defective</td></tr>
<tr><td rowspan="2">2</td><td rowspan="2">MAIN</td><td>V53 Gate Array (IC2) check</td><td>Press and hold the two C keys shown below, and then turn on the power switch.
 
</td></tr>
<tr><td colspan="2">Monitor pins 46-48 (DL6-DL4) of IC2 on an oscilloscope, and check whether incremental data (see figure) is output.
 
</td></tr>
<tr><td rowspan="3">3</td><td rowspan="3">CP</td><td>CPU (IC1) check</td><td>1. Connect the CHECKING DEVICE to CN 7 on the MAIN P.C.B. (The Checking Device switch should be off).
2. Press and hold the two D keys shown below, and then turn on the power switch.
 
</td></tr>
<tr><td colspan="2">When the power switch is turned on, the LED of the CHECKING DEVICE flashes 4 times. The order of the LED flashes corresponds to the CPU (IC) on the respective P.C.B..s as shown below. If an IC is defective, the corresponding flash time is longer.
1. IC1 OK
2. IC1 defective
 

NOTE : ● indicates short flash time = OK
▬ indicates long flash time = Defective</td></tr>
</table>

No.	PCB	TEST MODE	Procedure
4	MAIN	Wave ROM (IC6, 13, 15, 19) check	1. Press and hold the two E keys shown below, and then turn on the power switch. 2. Select the GRAND PIANO sound. 
		When set to the self-diagnostic mode, the Wave ROM outputs a sine wave. If no sound is produced, or if the sound is distorted, the Wave ROM is defective.	•The key number indicates the wave ROM number (I-①: IC8, I-②: IC13, II-①: IC19, II-②: IC15). 
5	CP	Control Panel LED check	Press and hold the two F keys shown below, and then turn on the power switch. 
		Press the buttons on the control panel and confirm that the corresponding LEDs light.	
6	MKB	Keyboard ROM (IC2) check	Press and hold the two B keys shown below, and then turn on the power switch. 
		If the keyboard ROM (IC2) is OK, one confirming beep will sound. If it is defective, several consecutive error beeps will sound.	

■ Connection between serving CHECKING DEVICE and MAIN P.C.B.



MIDI IMPLEMENTATION CHART

Function		Transmitted	Recognized	Remarks
Basic **Channel**	Default Changed	1–16 1–16	1–16 1–16	memorized
Mode	Default Messages Altered	3 × —	1, 3 × —	memorized
Note **Number**	True voice	*21–108 —	0–127 *0–127	
Velocity	Note ON Note OFF	○ × (9nH: V=0)	○ ×	
After **Touch**	Key's Ch's	× ×	× ×	
Pitch Bend		×	×	
Control **Change**	7	×	**○	volume
	64	○×	○×	sustain pedal
	66	○×	○×	sostenuto pedal
	67	○×	○×	soft pedal
	93	○×	○×	chorus (digital effect)
Prog **Change**	True #	○× 0–127	○× 0–7 (PX205) 0–9 (PX207)	
System Exclusive		×	×	
System **Common**	Song Pos Song Sel Tune	× × ×	× × ×	
System **Real Time**	Clock Commands	× ×	× ×	
Aux **Messages**	Local ON/OFF All Notes OFF Active Sense Reset	× × ○ ×	× ○ ○ ×	
Notes		○× .....Whether or not the data for each of these items is transmitted or received can be set. * Changes depending on the **TRANSPOSE** setting. ** Effective only in the MULTI TIMBRE mode.		

Mode 1: OMNI ON, POLY **Mode 2:** OMNI ON, MONO ○ : Yes
Mode 3: OMNI OFF, POLY **Mode 4:** OMNI OFF, MONO × : No

PRECAUTIONS BEFORE SERVICING

■ Precautions for measuring of the output waveforms.

1. The waveform was measured with a "National Digital Storage Oscilloscope VP-5730A". Therefore the waveforms of musical tone signals shown may differ somewhat due to the difference in the timing of triggering.
2. Since the 1/10 test probe is used, the indicated voltage value on the bottom part of each waveform photo is 1/10 of the actual value (e.g. 0.2 V/cm should be 2.0 V/cm).
3. To measure the waveforms, first set this unit to the self-diagnostic mode (refer to page I-13, No. 4). The Wave ROM output will then be output as a sine wave to facilitate the servicing check.

■ Important safety notice:

Components identified by a ⚠ mark have special characteristics impotant for safety.
When replacing any of these components, use only manufacture's specified parts.

■ Symbolic Marks

The symbolic marks for resistors and capacitors which used in this circuits are classified as following TABLE-1 and TABLE-2.

1. RESISTORS
   - Resistors without symbolic mark are FIXED CARBON FILM RESISTORS (ERD-type).
   - All resistors are 1/4 WATT, ±5 % TOLERANCE unless otherwise designated in schematic diagrams.

(TABLE-1)

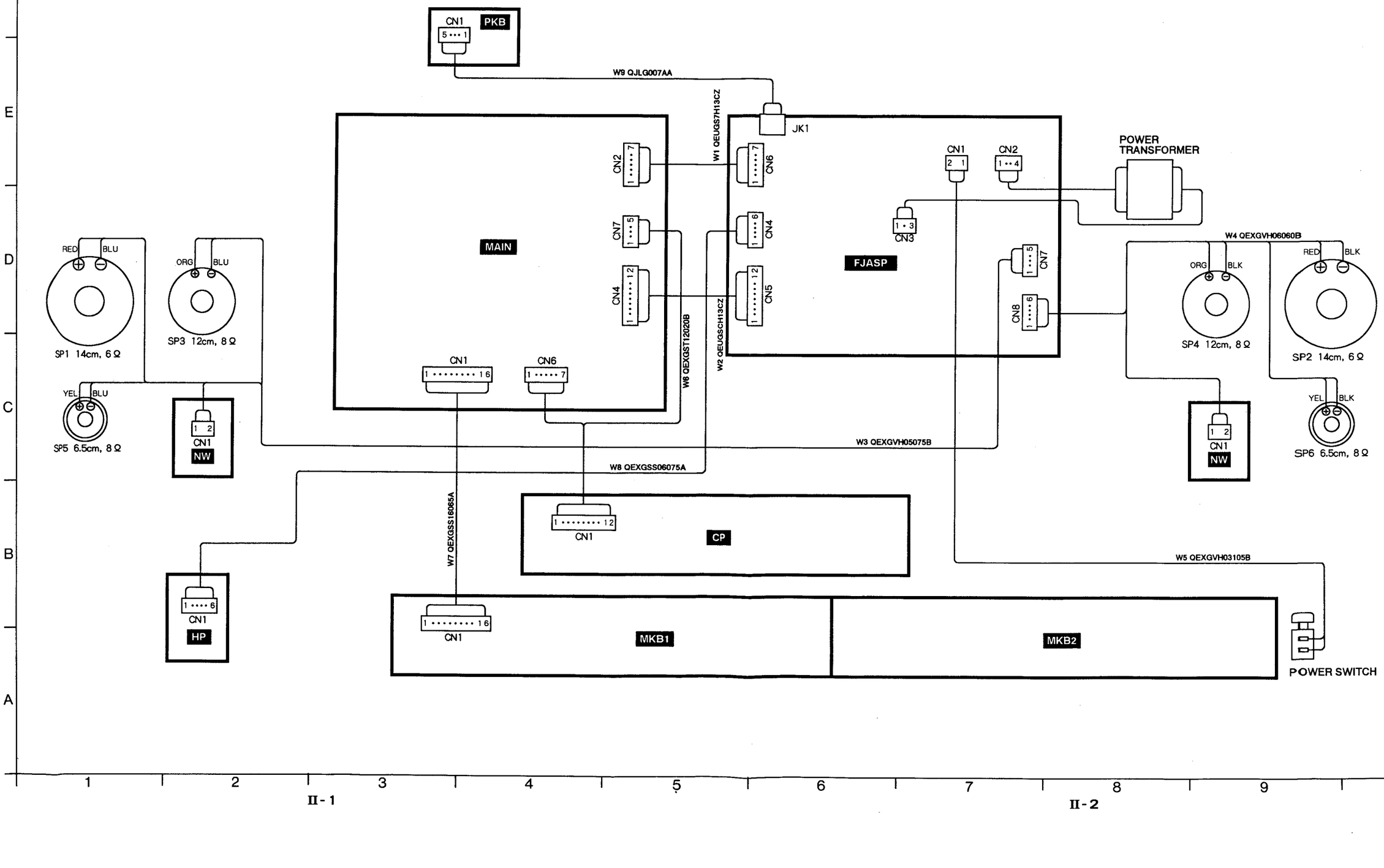
SYMBOL	SPECIFICATION	SYMBOL	SPECIFICATION
Ⓕ	Fixed Carbon Film Resistors "FLAME-PROOF" (ERD—F—type)	Ⓕ	Fixed Metal Film Resistors "FLAME-PROOF" (ERX—type)
Ⓕ	Fixed Wire Wound Resistors "FLAME-PROOF" (ERF—type)	[F]	Fuse Type Fixed Metal Oxide Film Resistors "FLAME-PROOF" (ERQ—type)
Ⓕ	Fixed Metal Oxide Film Resistors "FLAME-PROOF" (ERG—type)	[F]	Fuse Type Fixed Carbon File Resistors "FLAME-PROOF" (ERD2FC—type)
Ⓖ	Fixed Metal Film Resistors (Precision and High Stability) (ERO—type)		

2. CAPACITORS
   - Capacitors without symbolic mark are POLYESTER CAPACITORS. (ECQM-type, ECQG-type, ±10 % Tolerance)
   - Polarized capacitors without symbolic mark are Aluminum Electrolytic Capapcitors. (ECEA-type, ±20 % Tolerance)

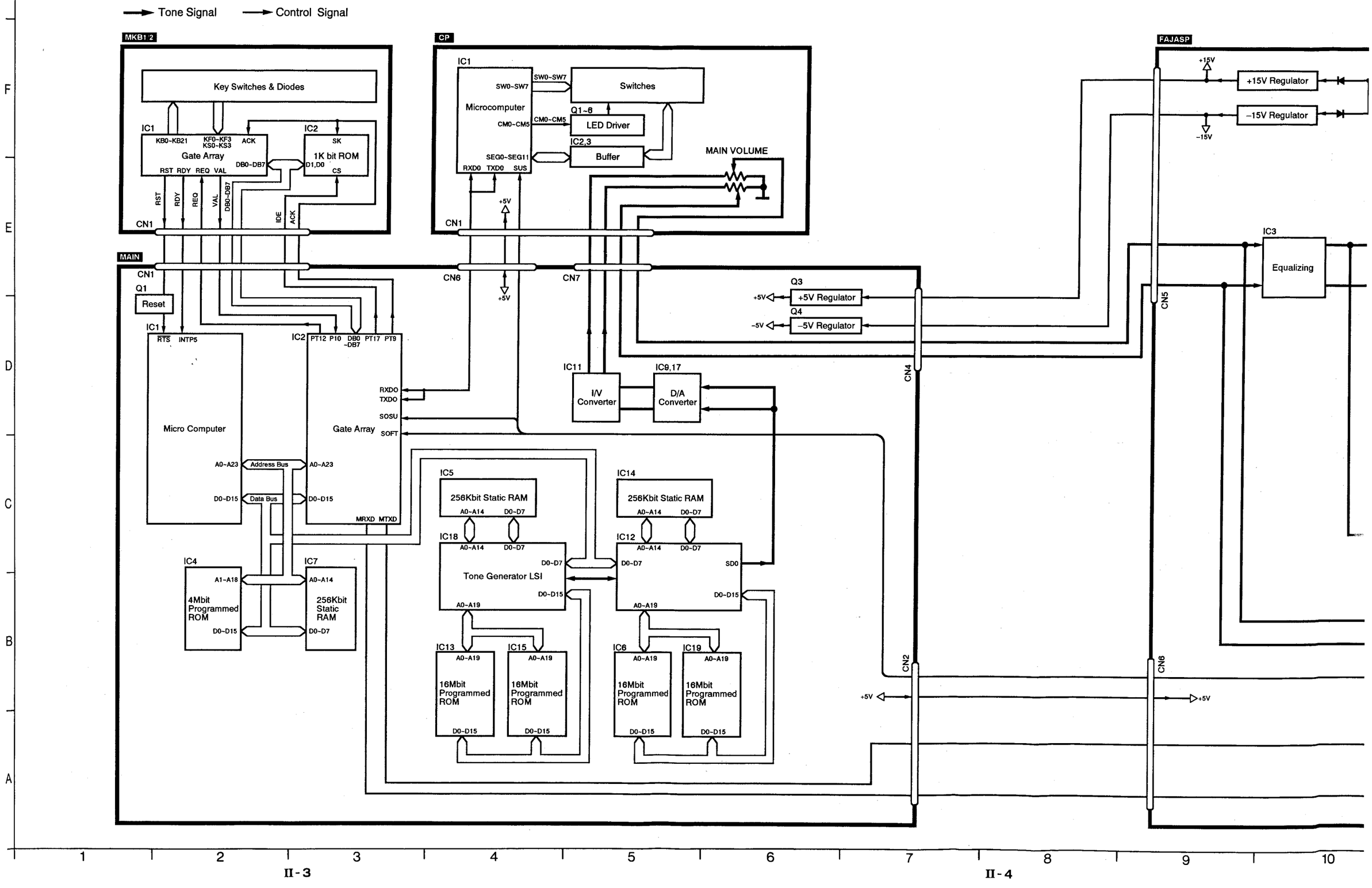
(TABLE-2)

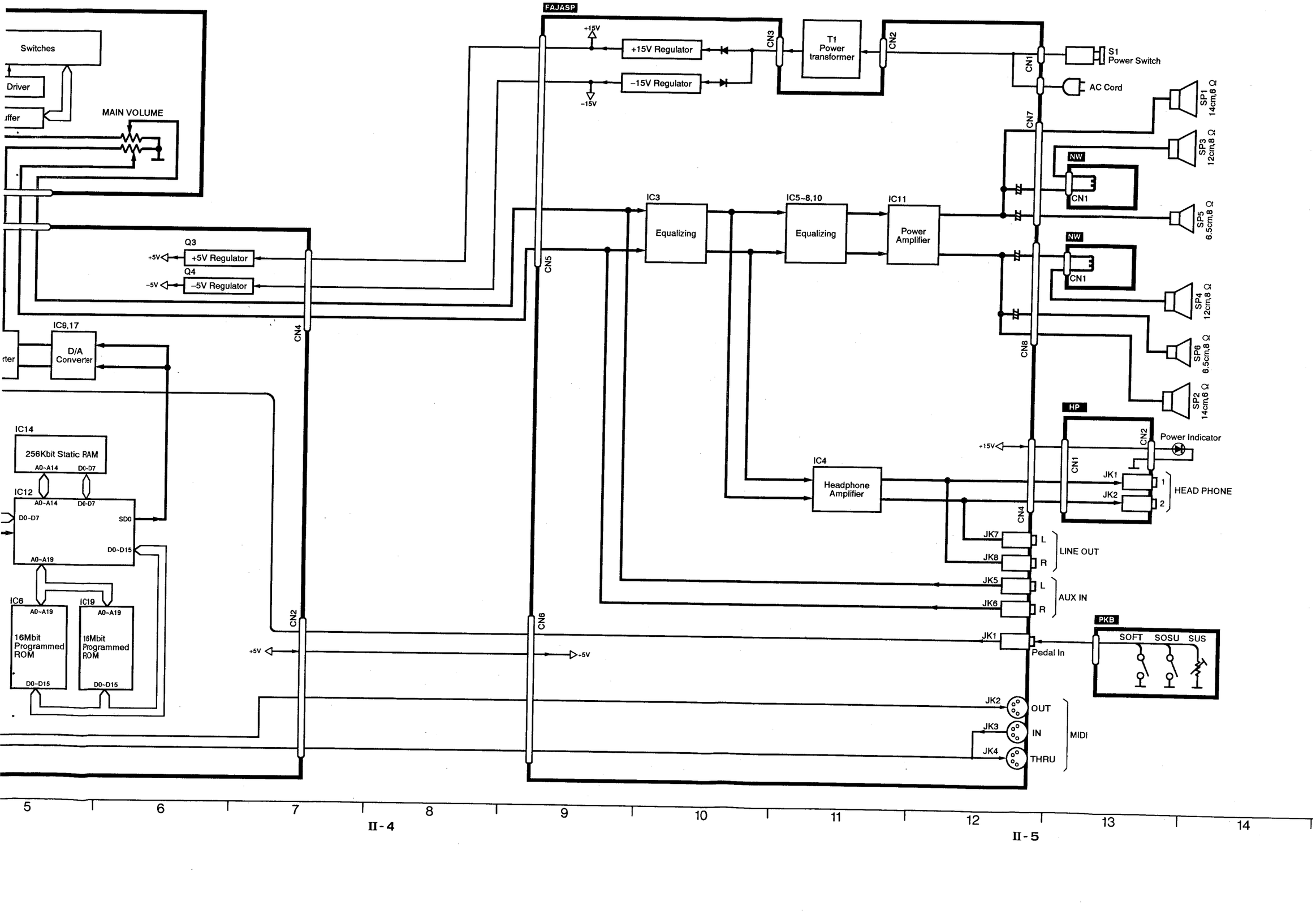
SYMBOL	SPECIFICATION	TYPE
Ⓝ	Non-Polarized Electrolytic Capacitors	ECEA_KN_type
Ⓨ	Non-Polarized Electrolytic (for Network system)	ECEA_Y_type
Ⓣ	Tantalum Solid Electrolytic Capacitors	ECS_type
TF	Metalized Plastic Film Capacitors (TF Series)	ECQV_type
○	Temperature Compensating Ceramic Capacitors	ECC_type
	High-Dielectric Constant Ceramic Capacitors	ECK_type ECR_type
	Axial Lead Ceramic Capacitors	ECB_type
	Metalized Polyester Film Capacitors for Across the Line	ECQ_EW_type
	Aluminum Electrolytic Capacitors for Smoothing Circuit	ECES_type
	Multilayer Ceramic Chip Capacitors	ECUV_type

WIRING CONNECTION Diagram



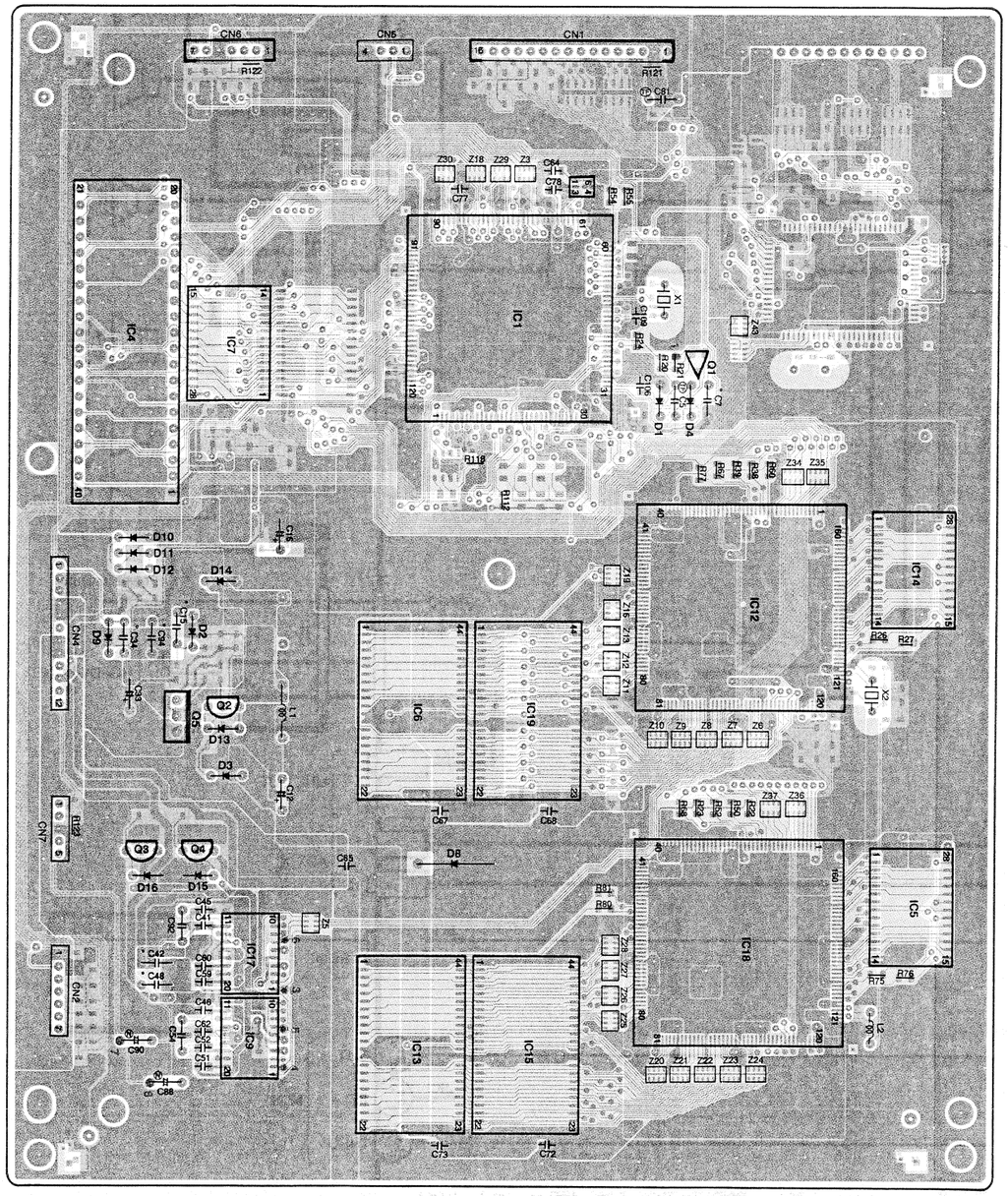
BLOCK Diagram



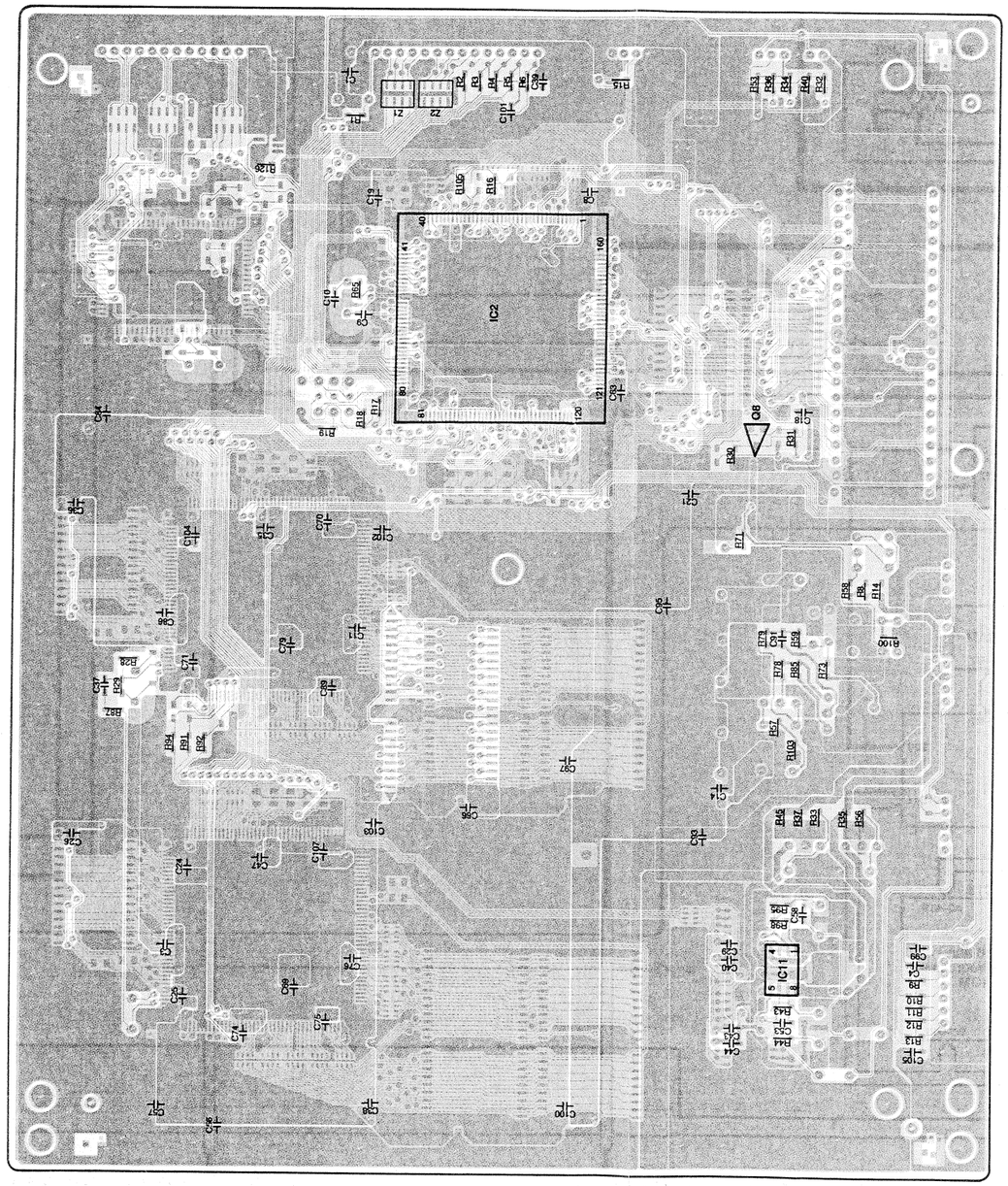

FAJASP
Switches
Driver
MAIN VOLUME
+15V
+15V Regulator
–15V Regulator
–15V
CN3
T1
Power transformer
CN2
CN1
S1
Power Switch
AC Cord
CN7
SP1
14cm,6 Ω
SP3
12cm,8 Ω
NW
CN1
SP5
6.5cm,8 Ω
SP4
12cm,8 Ω
SP6
6.5cm,8 Ω
SP2
14cm,6 Ω
Q3
+5V
+5V Regulator
Q4
–5V
–5V Regulator
CN4
CN5
IC3
Equalizing
IC5~8,10
Equalizing
IC11
Power Amplifier
CN8
IC9,17
D/A Converter
IC14
256Kbit Static RAM
A0~A14
D0~D7
IC12
SD0
D0~D15
A0~A19
IC6
IC19
16Mbit Programmed ROM
HP
Power Indicator
CN2
JK1
JK2
1
2
HEAD PHONE
IC4
Headphone Amplifier
CN1
CN4
JK7
JK8
L
R
LINE OUT
JK5
JK6
AUX IN
CN2
CN6
+5V
JK1
Pedal In
PKB
SOFT
SOSU
SUS
JK2
OUT
JK3
IN
JK4
THRU
MIDI

MAIN P.C. Board

MAIN (SXPG224021) (COMPONENT SIDE)



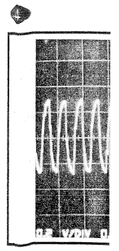
MAIN (FOIL SIDE)



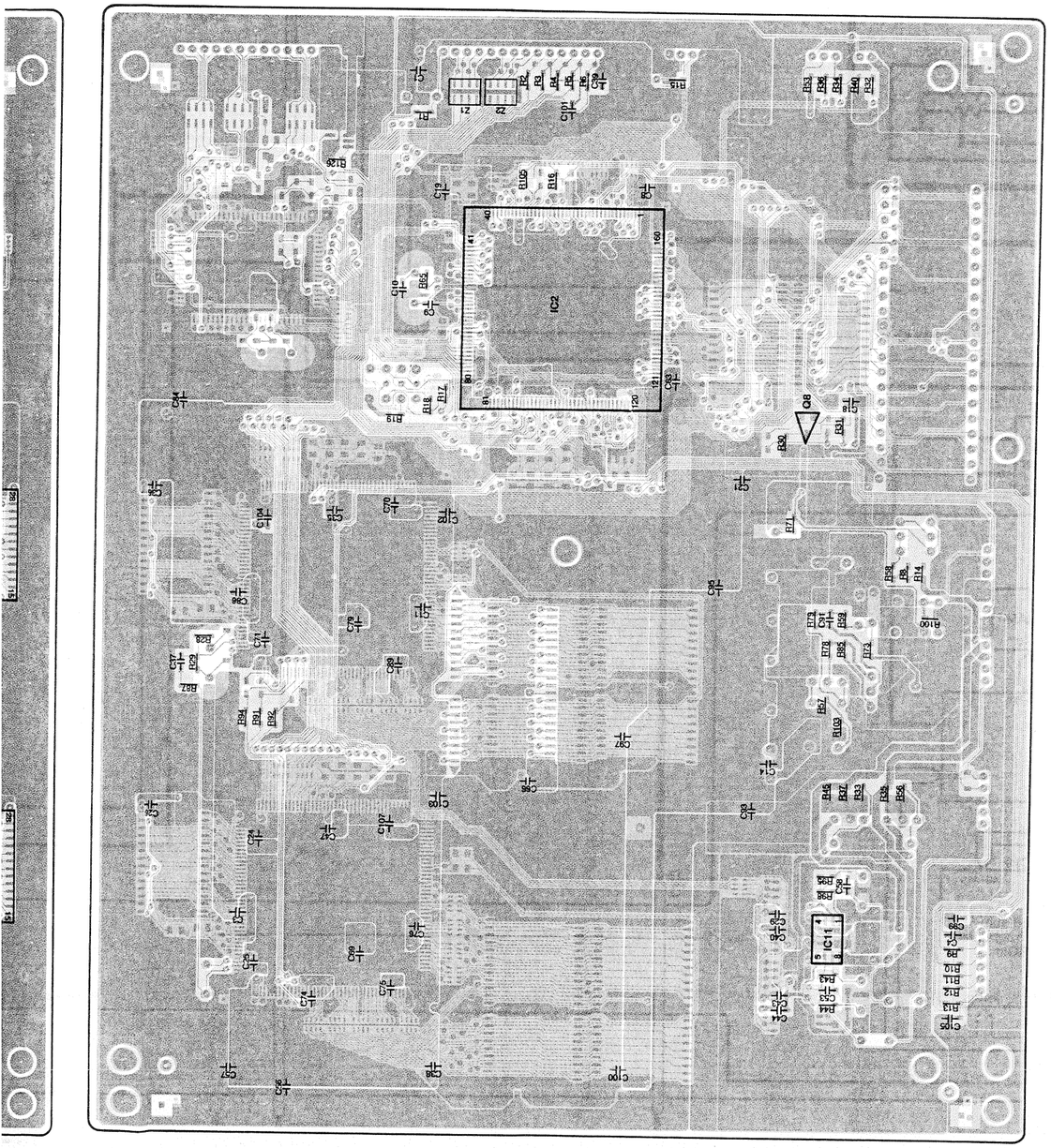
MAIN

NOTES:

- IC'S
  - IC1:
  - IC2:
  - IC4:
  - IC4-1:
  - IC5:
  - IC6:
  - IC7:
  - IC9:
  - IC11:
  - IC12:
  - IC13:
  - IC14:
  - IC15:
  - IC17:
  - IC18:
  - IC19:
  - IC23:
- TRANSISTO
  - Q1:
  - Q2, 3:
  - Q4:
  - Q5:
  - Q8:
- DIODES
  - D1:
  - D2:
  - D3:
  - D4:
  - D8:
  - D9:
  - D10~12:
  - D13:
  - D14:
  - D15, 16:



MAIN (FOIL SIDE)



MAIN

NOTES:

- IC'S
  - IC1: D70236AGD10
  - IC2: D65046GD188
  - IC4: QSIGCX207AX
  - IC4-1: [M27C400210F1]
  - IC5: TC51832FL85
  - IC6: QSIGH3C16DK9
  - IC7: LH52B256N7LL
  - IC9: PCM1702U
  - IC11: M5218AFP
  - IC12: D93083GDLBD
  - IC13: QSIGH3C16DL0
  - IC14: TC51832AFL85
  - IC15: QSIGH3C16DL3
  - IC17: PCM1702U
  - IC18: D93083GDLBD
  - IC19: QSIGH3C16DL2
  - IC23: TC7S00F
- TRANSISTORS
  - Q1: 2SB709AR
  - Q2, 3: 2SC1815GR
  - Q4: 2SA1015-GR
  - Q5: 2SB941P
  - Q8: 2SD601AQ
- DIODES
  - D1: MA165
  - D2: MA4047H
  - D3: MA165
  - D4: MA4030
  - D8: MA2062LF
  - D9: MA162A
  - D10～12: MA165
  - D13: MA162A
  - D14: EK04
  - D15, 16: MA4062

Measuring Condition ■ 波形の測定条件

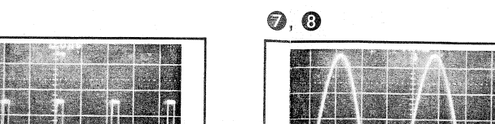
Check Point ❸～❽

Set to the self-diagnostic mode followings.

- While pressing two E keys (①) simultaneously, turn on the power switch.

次のように自己診断モードに設定してください。

- 2 つの E キー（①）を同時に押しながら、電源スイッチをオンする。
- SOUND ..... GRAND PIANO
- Main Volume..... Center
- Keyboard ..... A_1 (②)



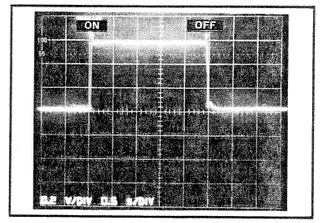
Check Point ❶

Set the initial setting mode (Refer to page Ⅰ-6)

イニシャルセッティングを行ってください。（Ⅰ-6 ページ参照）

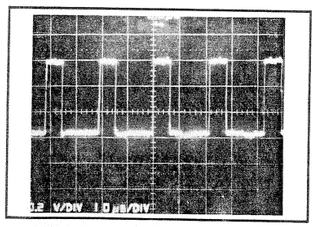
- SOUND ..... GRAND PIANO
- Main Volume..... Center

❶ RESET

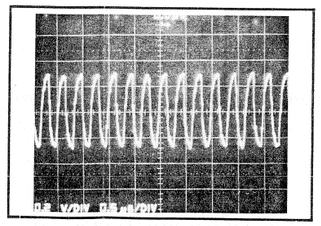


- Power SW ..... ON → OFF

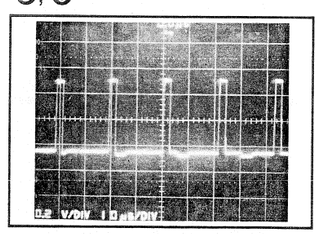
❸



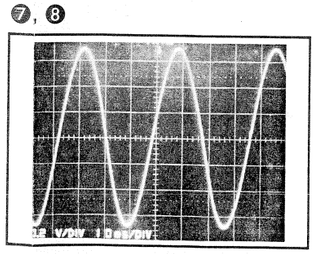
❹



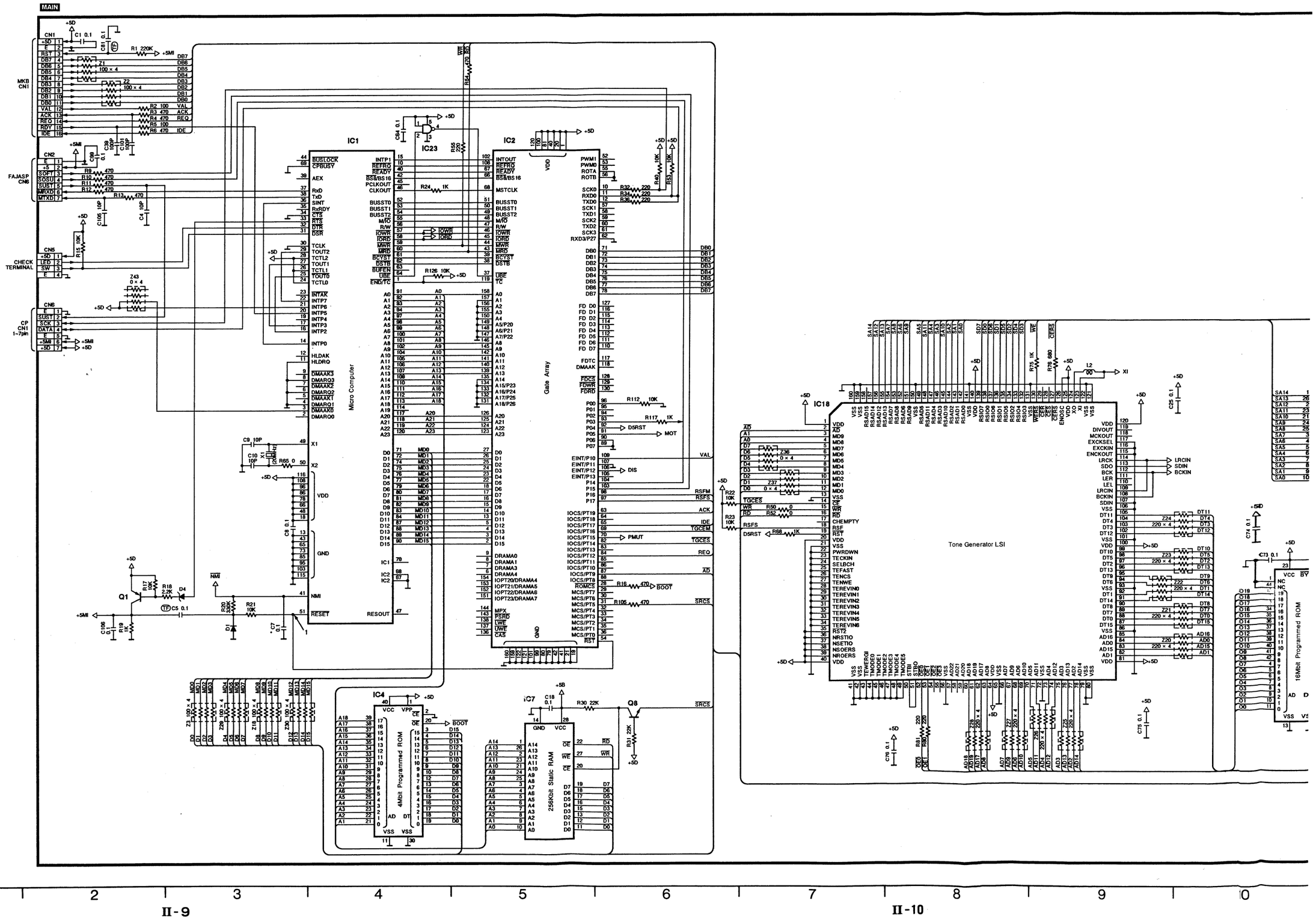
❺, ❻



❼, ❽



MAIN P.C. Diagram



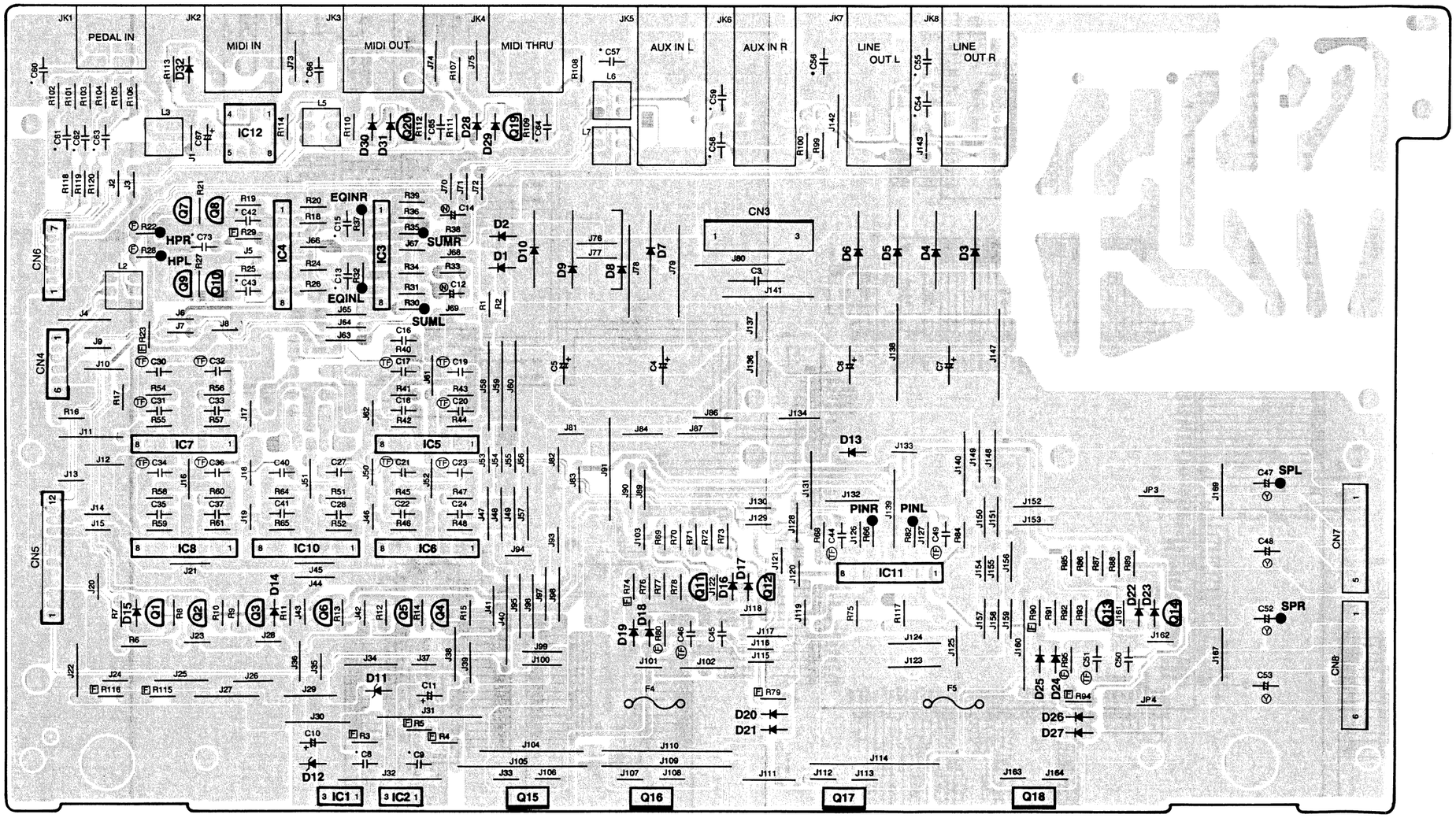
Tone Generator LSI

FJASP/NW/HP P.C. Board

X XS XD XT (SXPG224161A) **日本向 (SXPG224111A)**

M MC XM (SXPG224131A) **XR (SXPG224151A)**

FJASP Others (SXPG224121A) **XL (SXPG224141A)**



FJASP

NOTES:

- IC'S
  - IC1: M5F78M15L
  - IC2: M5F79M15L
  - IC3~8, 10, 11: M5218AL
  - IC12: QCPL-260L
- TRANSISTORS
  - Q1, 2: 2SC1815GR
  - Q3: 2SA1015-GR
  - Q4: 2SC1815GR
  - Q5, 6: 2SA1015-GR
  - Q7: 2SD592ARS
  - Q8: 2SB621ARS
  - Q9: 2SD592ARS
  - Q10: 2SB621ARS
  - Q11: 2SC1815GR
  - Q12: 2SA1015-GR
  - Q13: 2SC1815GR
  - Q14: 2SA1015-GR
  - Q15: 2SB946P
  - Q16: 2SD1271P
  - Q17: 2SB946P
  - Q18: 2SD1271P
  - Q19, 20: 2SA1015-GR
- DIODES
  - D1, 2: SVDGERA1502
  - D3~10: SVDS3V20
  - D11, 12: MA4180
  - D13, 14: EK04
  - D15~18: MA165
  - D19, 20: MA167
  - D21~24: MA165
  - D25, 26: MA167
  - D27~32: MA165
- FUSES
  - F4, 5 M MC XM: XBA1C25NU100
  - F4, 5 Others: XBA2C20TB0
  - F4, 5 日本向: XBA1C20NS5

JASP

OTES:

IC'S

IC1:	M5F78M15L
IC2:	M5F79M15L
IC3～8, 10, 11:	M5218AL
IC12:	QCPL-260L

TRANSISTORS

Q1, 2:	2SC1815GR
Q3:	2SA1015-GR
Q4:	2SC1815GR
Q5, 6:	2SA1015-GR
Q7:	2SD592ARS
Q8:	2SB621ARS
Q9:	2SD592ARS
Q10:	2SB621ARS
Q11:	2SC1815GR
Q12:	2SA1015-GR
Q13:	2SC1815GR
Q14:	2SA1015-GR
Q15:	2SB946P
Q16:	2SD1271P
Q17:	2SB946P
Q18:	2SD1271P
Q19, 20:	2SA1015-GR

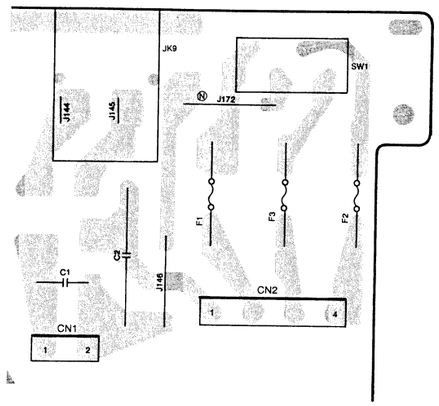
DIODES

D1, 2:	SVDGERA1502
D3～10:	SVDS3V20
D11, 12:	MA4180
D13, 14:	EK04
D15～18:	MA165
D19, 20:	MA167
D21～24:	MA165
D25, 26:	MA167
D27～32:	MA165

FUSES

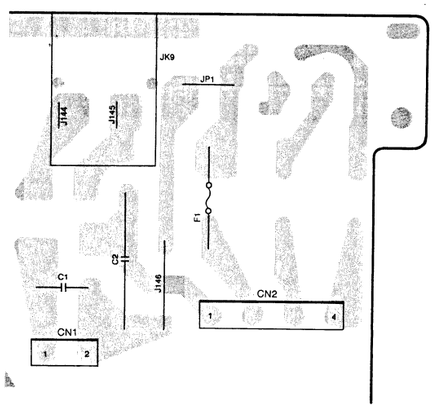
F4, 5 M MC XM:	XBA1C25NU100
F4, 5 Others:	XBA2C20TB0
F4, 5 日本向:	XBA1C20NS5

X XS XD XT XR



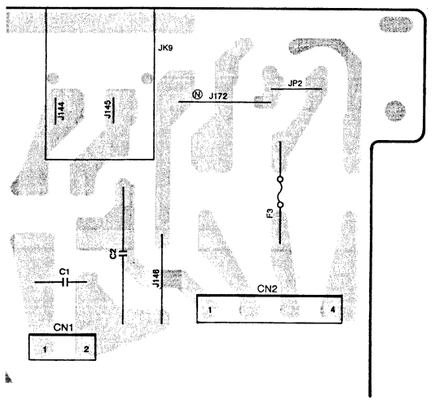
NOTE:
- FUSES
  F1: XBA2C31TB0
  F2, 3: XBA2C20TB0

M MC XM 日本向



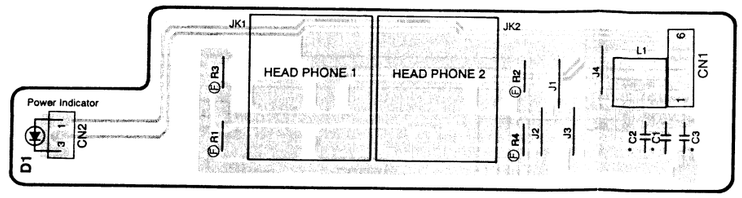
NOTE:
- FUSE
  F1 M MC XM: XBA1C63NU100
  F1 日本向: XBA1C50NS5

XL Others



NOTE:
- FUSE
  F3: XBA2C20TB0

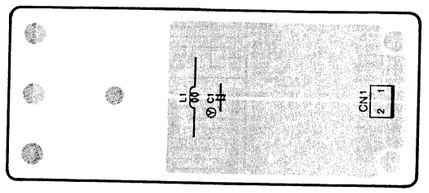
HP (SXPG224311)



HP

NOTE:
- DIDOE
  D1: SEL4214RLC05

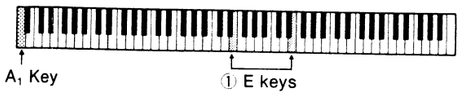
NW (SXPG224111B)



■ Measuring Condition ■ 波形の測定条件

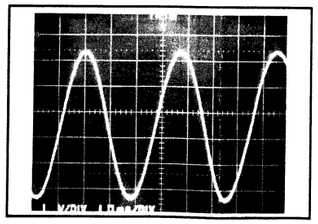
Check Point ❸～❺
Set to the self-diagnostic mode followings.
- While pressing two E keys (①) simultaneously, turn on the power switch.

次のように自己診断モードに設定してください。
- 2 つの E キー（①）を同時に押しながら、電源スイッチをオンする。
- SOUND ..... GRAND PIANO
- Main Volume..... Center
- Keyboard ..... A_1 (②)

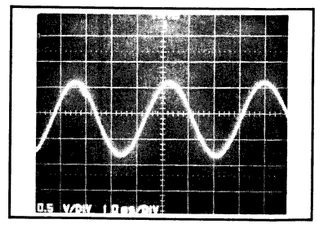


Check Point ❶, ❷
Set the initial setting mode (Refer to page Ⅰ-6)
チェックポイント ❶、❷
イニシャルセッティングを行ってください。（Ⅰ-6 ページ参照）

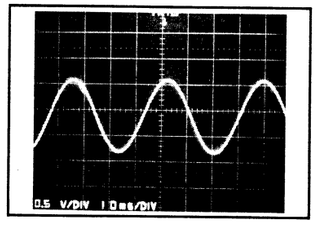
SPL, SPR



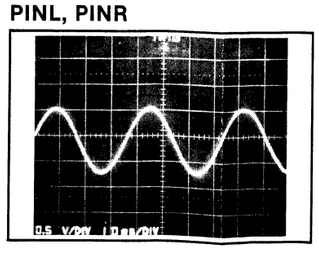
EQINL, EQINR



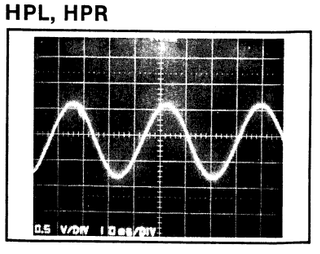
SUML, SUMR



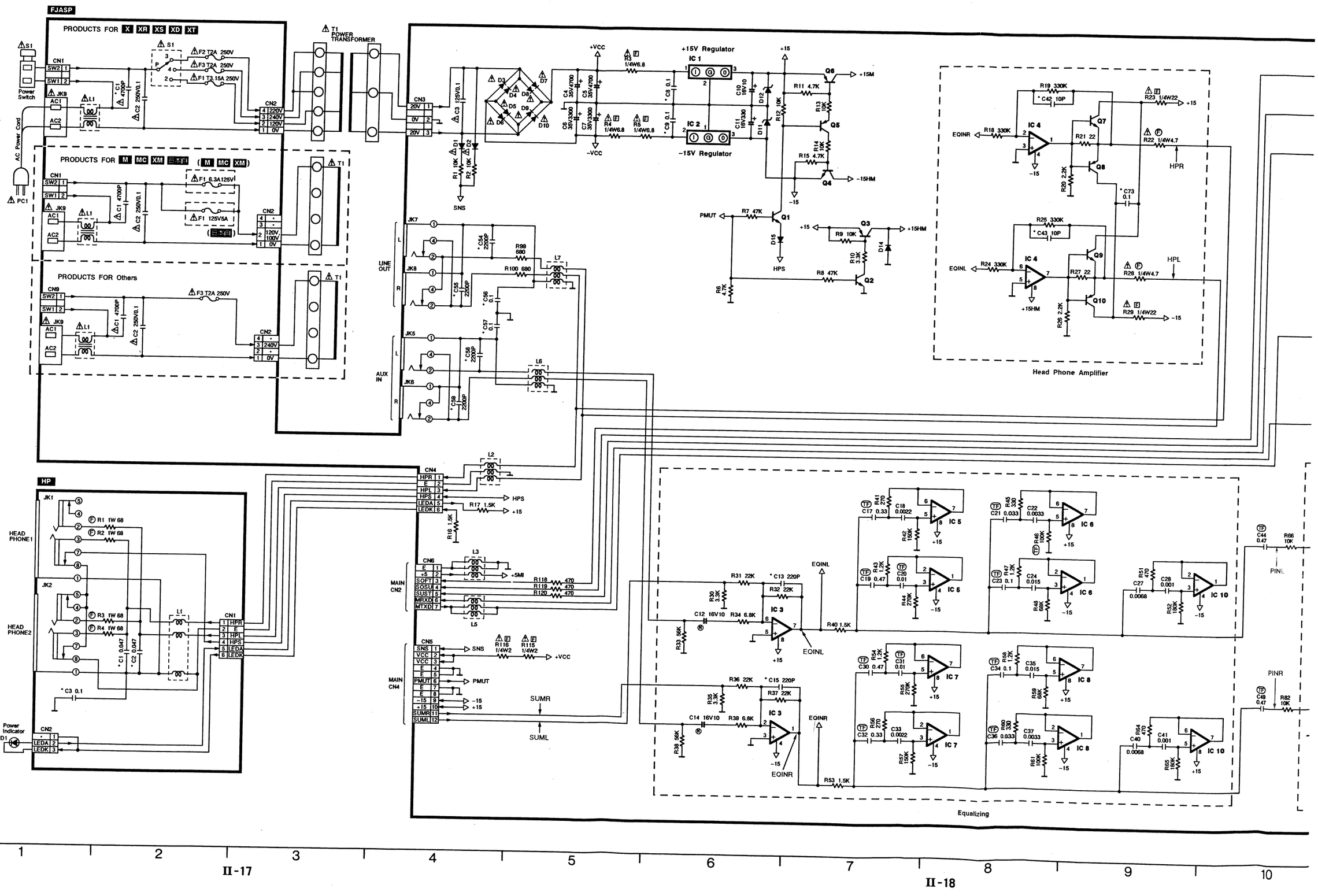
PINL, PINR



HPL, HPR



FJASP/NW/HP P.C. Diagram

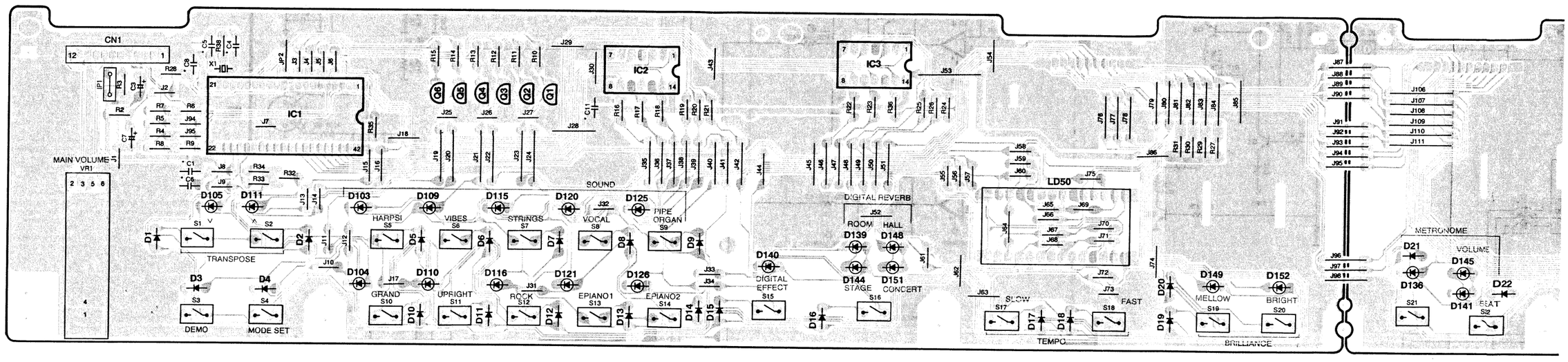


+VCC
-VCC
+15V Regulator
-15V Regulator
IC 1
IC 2
Q1 Q2 Q3 Q4 Q5 Q6
PMUT
HPS
+15M
-15HM
Head Phone Amplifier
IC 4
EQINR
EQINL
HPR
HPL
Q7 Q8 Q9 Q10
PEDAL IN
MIDI THRU
MIDI OUT
MIDI IN
JK1 JK2 JK3 JK4
IC12 Photo Coupler
SUMR
SUML
Equalizing
IC 3 IC 5 IC 6 IC 7 IC 8 IC 10
PINL
PINR
Power Amplifier
IC11
SPL
SPR
SP1 14cm,6 Ω
SP2 14cm,6 Ω
SP3 12cm,8 Ω
SP4 12cm,8 Ω
SP5 6.5cm,8 Ω
SP6 6.5cm,8 Ω
CN7
CN8
CN1

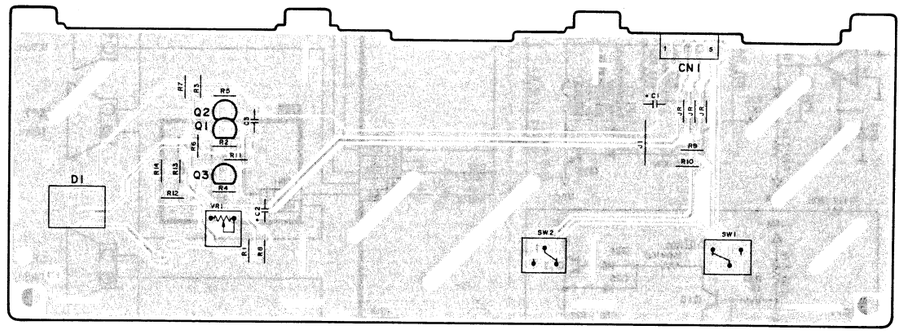
5 6 7 8 9 10 11 12 13 14

CP/PKB P.C. Board

CP (SXPG224221)



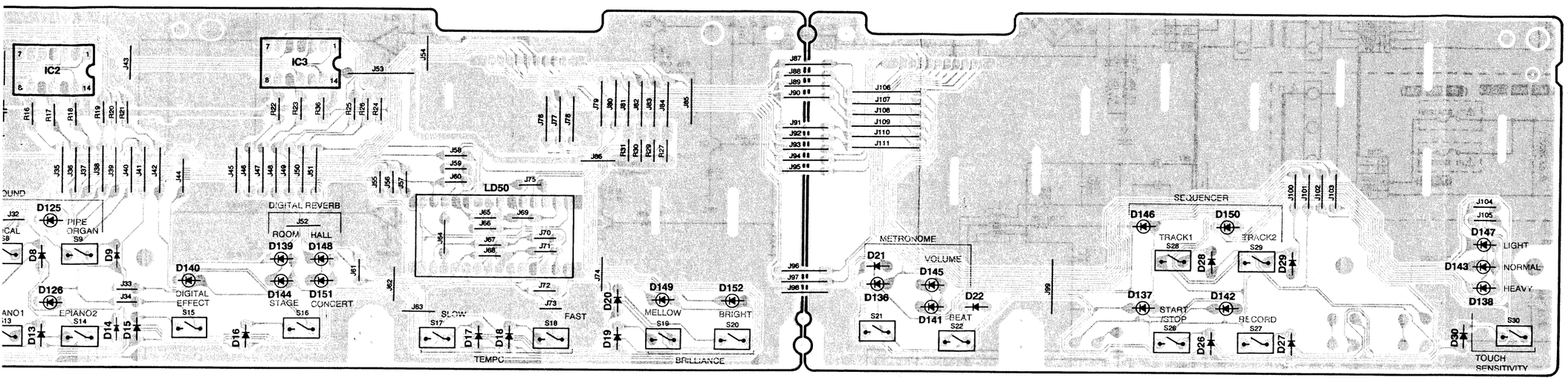
PKB (SXPG218211)



PKB

NOTES:

- TRANSISTORS
  Q1, 2: 2SC1815GR
  Q3: 2SA1015-GR
- DIODES
  D1: GP2S24BC



CP

NOTES:

- IC'S
  - IC1: M37471M2196S
  - IC2, 3: HD74LS07P
- TRANSISTORS
  - Q1～5: 2SA830SB
  - Q6: 2SA1015-GR
- DIODES
  - D1～22, 26～30: MA165
  - D103～105, 109～111, 115, 116, 120, 121, 125, 126, 136～152: LN282R

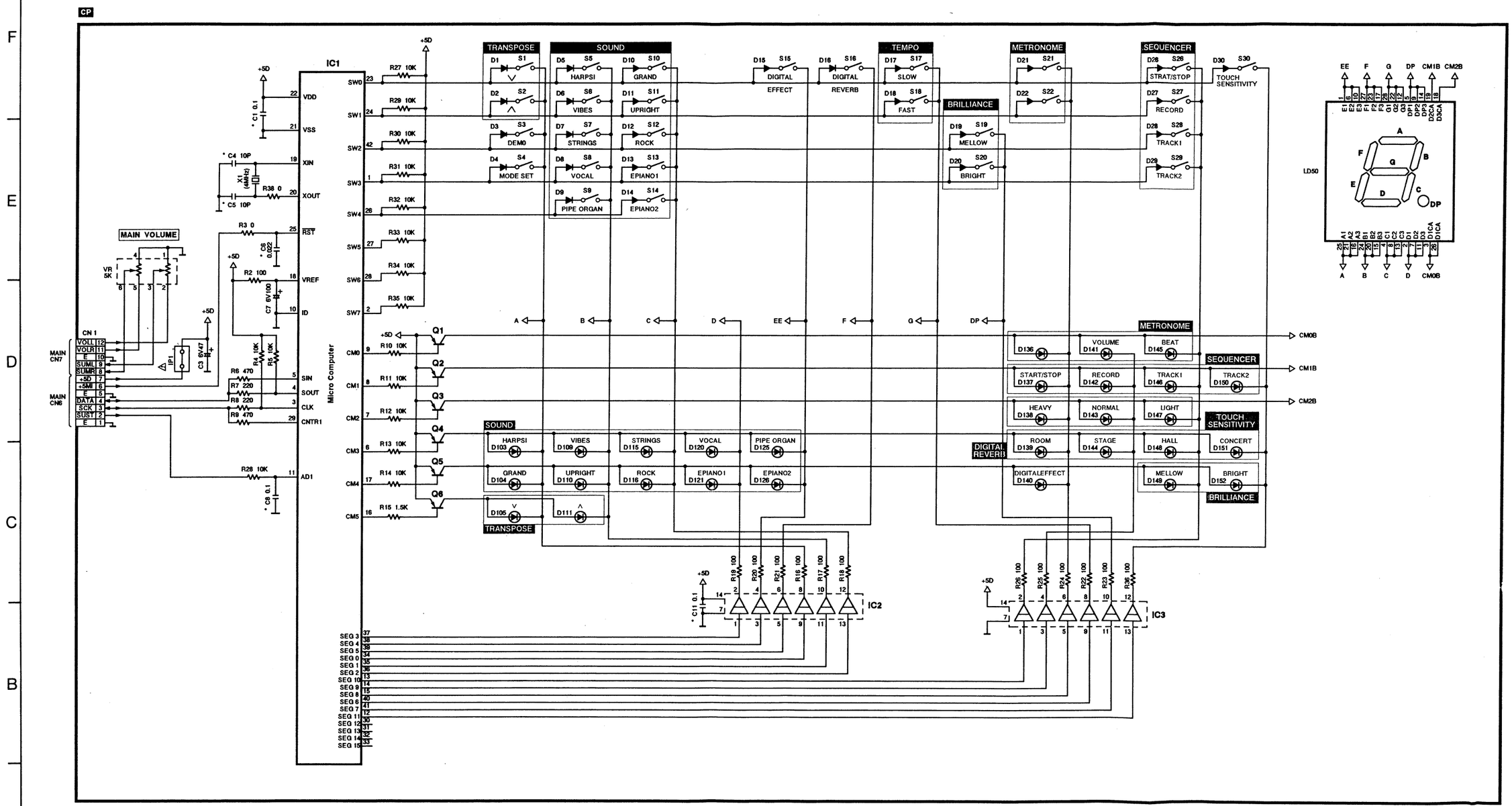
PKB

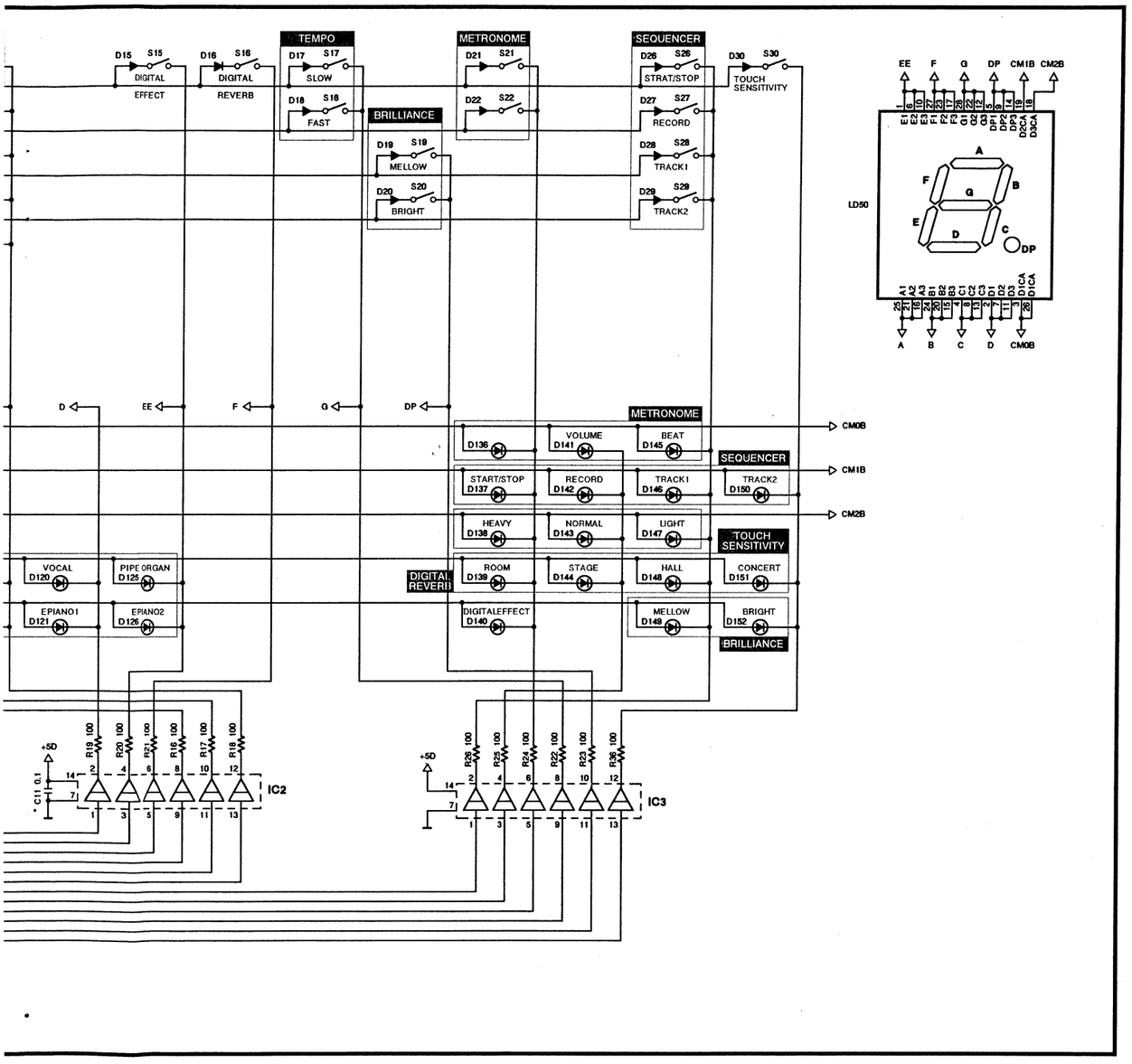
NOTES:

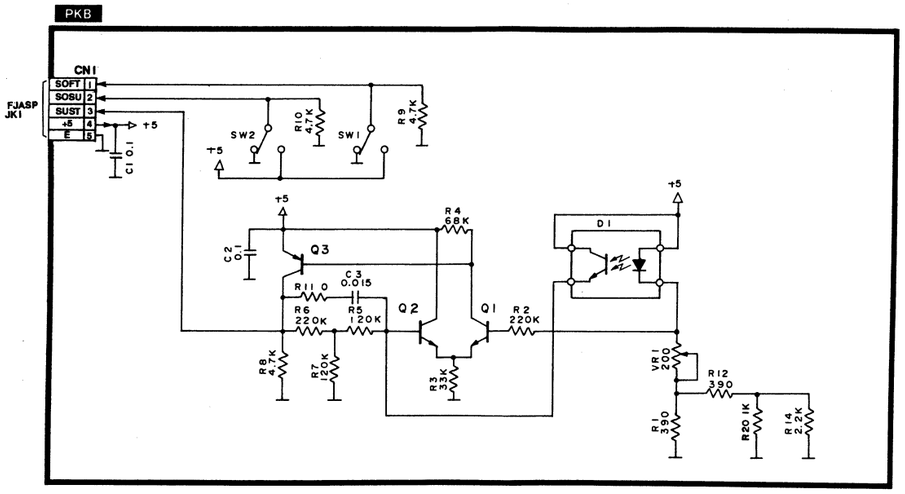
- TRANSISTORS
  - Q1, 2: 2SC1815GR
  - Q3: 2SA1015-GR
- DIODES
  - D1: GP2S24BC

5 6 7 8 9 10 11 12 13 14

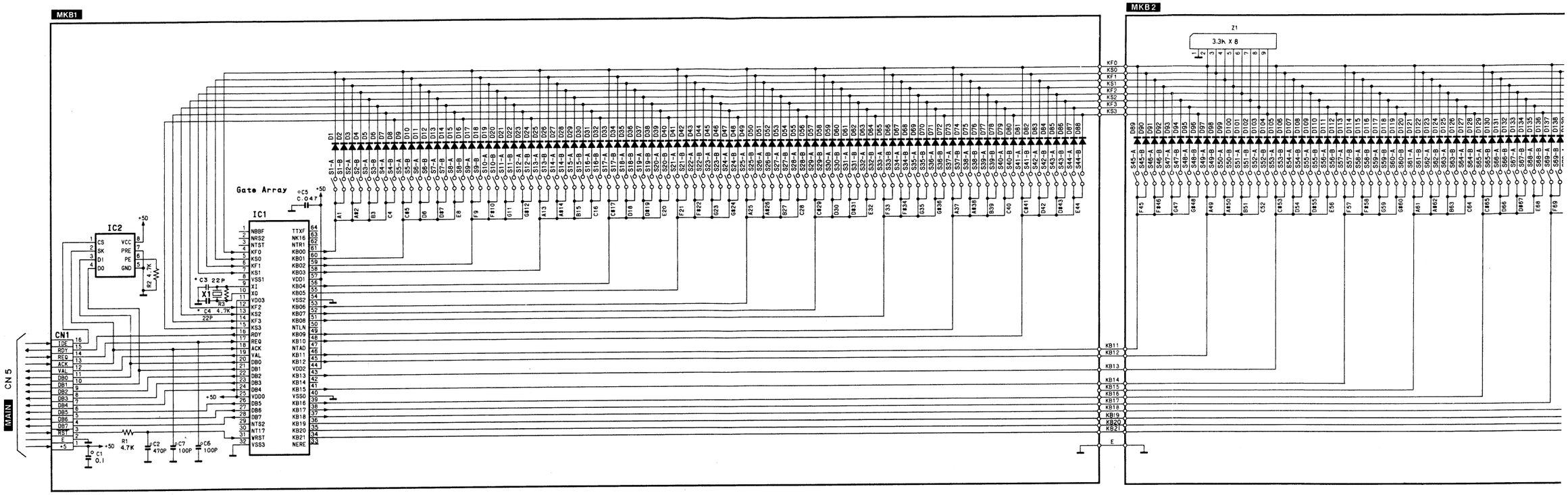
CP/PKB P.C. Diagram



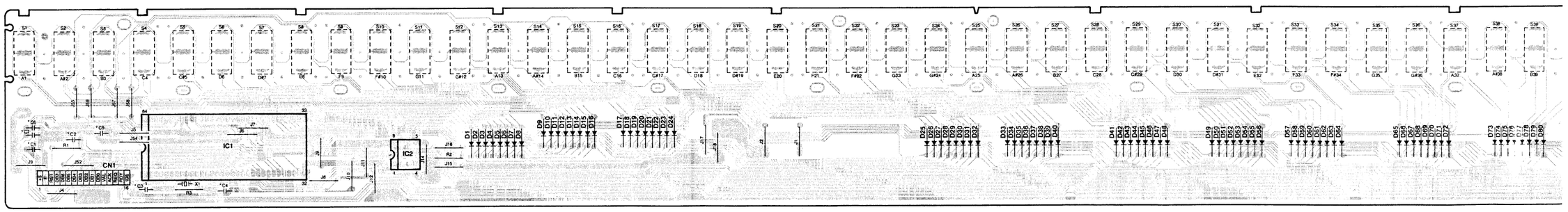

TEMPO
METRONOME
SEQUENCER
BRILLIANCE
DIGITAL EFFECT
DIGITAL REVERB
SLOW
FAST
MELLOW
BRIGHT
STRAT/STOP
RECORD
TRACK1
TRACK2
TOUCH SENSITIVITY
LD50
VOLUME
BEAT
START/STOP
HEAVY
NORMAL
LIGHT
ROOM
STAGE
HALL
CONCERT
DIGITALEFFECT
VOCAL
PIPE ORGAN
EPIANO1
EPIANO2
IC2
IC3
CM0B
CM1B
CM2B


PKB
CN1
FJASP JK1
SOFT
SOSU
SUST
SW1
SW2
Q1
Q2
Q3
D1
VR1 200
R1 390
R12 390
R20 1K
R14 2.2K

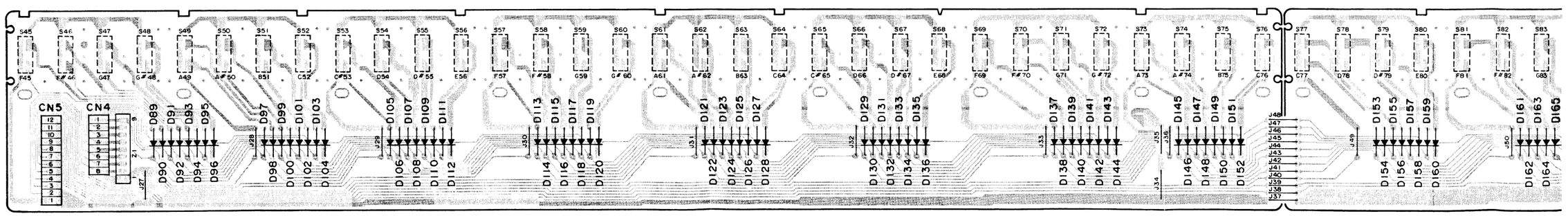
MKB1/2

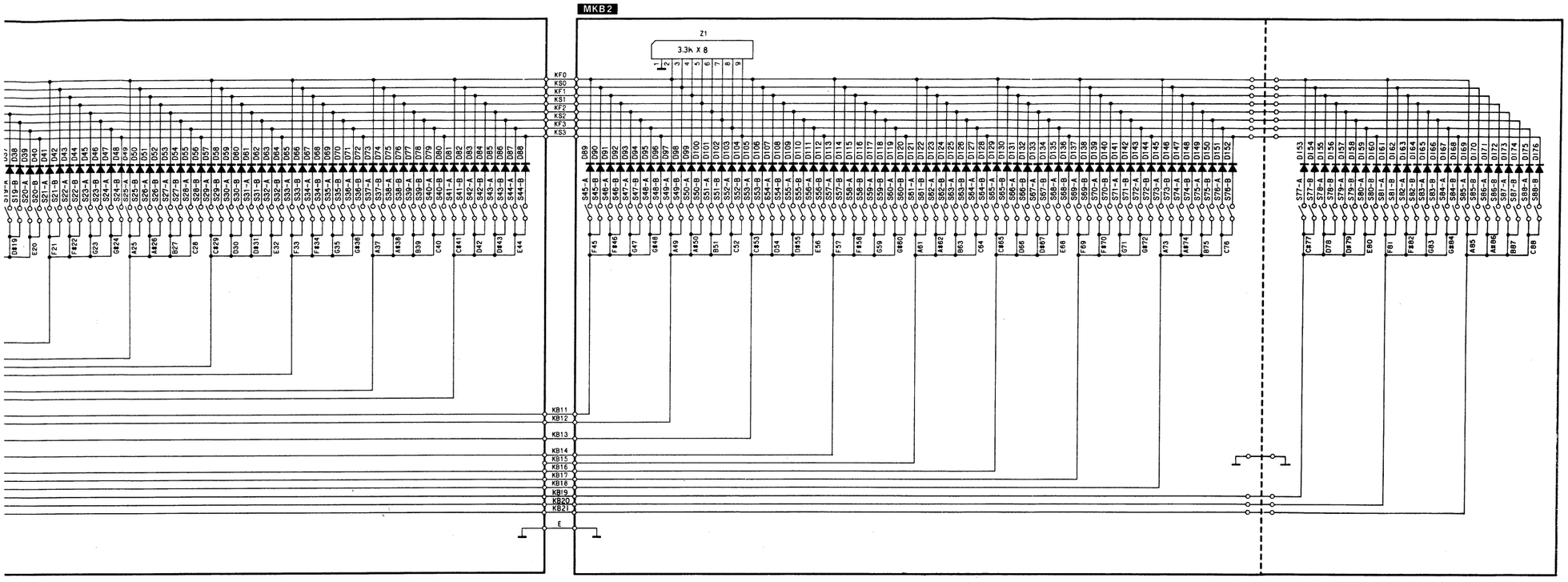


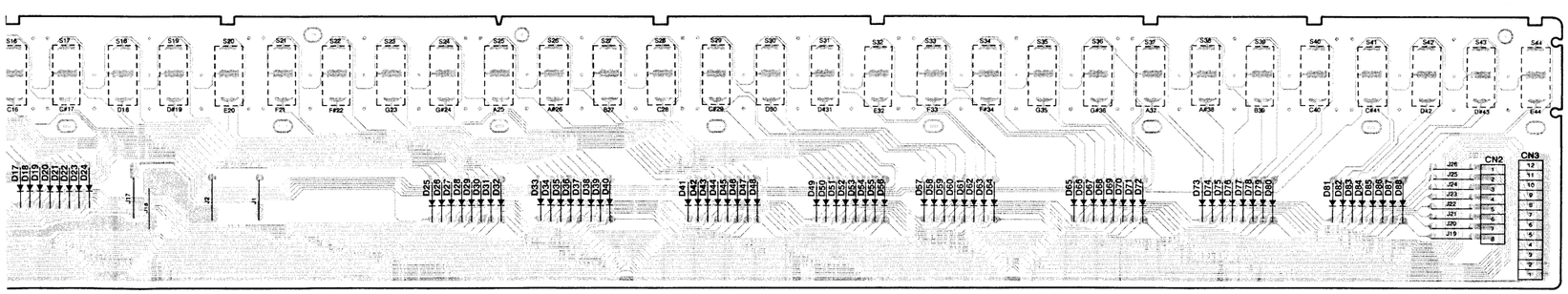
MKB1 (SXPG209751A)

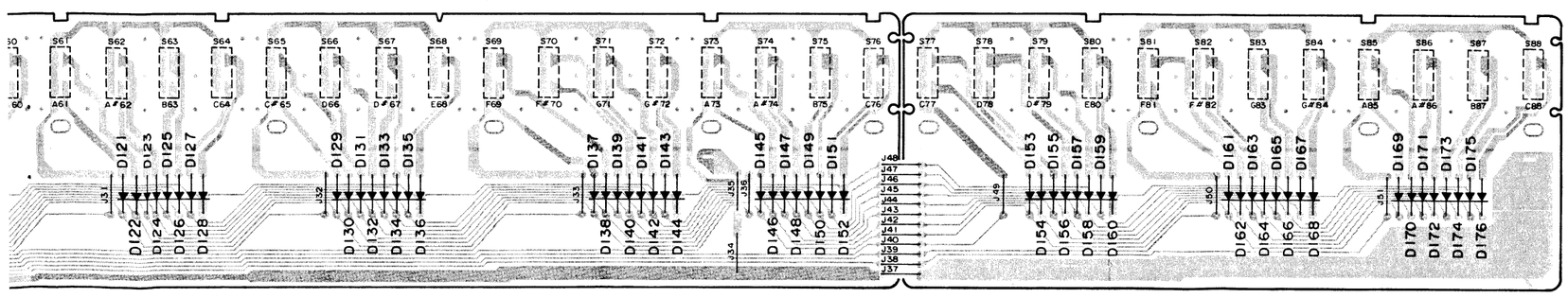


MKB2 (SXPG209751B)









MKB1

NOTES:

- IC'S
  - IC1: MSM7U042016
  - IC2: ST93C46CB1
- DIODES
  - D1～88: MA165

MKB2

NOTE:

- DIODES
  - D89～176: MA165

REPLACEMENT PARTS LIST.....P.C.B. and Wiring Parts

Notes:

1. The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retension period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
   After the end of this period, the assembly will no longer be available.
2. Important safety notice
   Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. The "S" mark is service standard parts and may differ from production parts.
4. ○ mark are new parts.
5. For part No. with area mark, check the area when placing an order.

■ PRINTED CIRCUIT BOARD

	RTL	Area	Part No.	Description	P/S
○	RTL		SXPG224021	MAIN	1
○	RTL	EN EK EZ EW EF EA EH EP XP	SXPG224121A	FJASP	1
○	RTL	M MC XM	SXPG224131A	FJASP	1
○	RTL	XL	SXPG224141A	FJASP	1
○	RTL	XR	SXPG224151A	FJASP	1
○	RTL	X XS XD XT	SXPG224161A	FJASP	1
○	RTL		SXPG224311	HP	1
○	RTL		SXPG224111B	NW	2
○	RTL		SXPG224221	CP	1
	RTL		SXPG209751A	MKB1	1
	RTL		SXPG209751B	MKB2	1
	RTL		SXPG218211	PKB	1

MAIN MAIN CIRCUIT

	Ref. No.	Part No.	Description	P/S
		INTEGRATED CIRCUITS		
	IC1	D70236AGD10	Microcomputer	1
	IC2	D65046GD188	Gate Array	1
○	IC4	QSIGCX207AX	4M bit Programmed EP ROM	1
S	IC4-1	[M27C400210F1	(Blank ROM)	1
	IC5	TC51832AFL85	256K bit Pseudo Static RAM	1
○	IC6	QSIGH3C16DK9	16M bit Programmed ROM	1
	IC7	LH52B256N7LL	256K bit Static RAM	1
	IC9	PCM1702U	D-A Converter	1
	IC11	M5218AFP	Operational Amplifier	1
	IC12	D93083GDLBD	Tone Generator LSI	1
○	IC13	QSIGH3C16DL0	16M bit Programmed ROM	1
	IC14	TC51832AFL85	256K bit Pseudo Static RAM	1
○	IC15	QSIGH3C16DL3	16M bit Programmed ROM	1
	IC17	PCM1702U	D-A Converter	1
	IC18	D93083GDLBD	Tone Generator LSI	1
○	IC19	QSIGH3C16DL2	16M bit Programmed ROM	1
	IC23	TC7S00F	NAND GATES	1
		TRANSISTORS		
	Q1	2SB709AR	Transistor	1
S	Q2, 3	2SC1815GR	Transistor	2
S	Q4	2SA1015-GR	2SA933STRS (SUB. Part)	1
	Q5	2SB941P	Transistor	1
	Q8	2SD601AQ	Transistor	1

	Ref. No.	Part No.	Description	P/S
		DIODES		
	D1	MA165	Diode	1
○	D2	MA4047H	Zener, 4.7V	1
	D3	MA165	Diode	1
	D4	MA4030	Zener, 3.0V	1
	D8	MA2062LF	Zener, 6.2V	1
S	D9	MA162A	MA150IR (SUB. Part)	1
	D10~12	MA165	Diode	3
S	D13	MA162A	MA150IR (SUB. Part)	1
	D14	EK04	Diode	1
	D15, 16	MA4062	Zener, 6.2V	2
		OSCILLATORS		
	X1	SVQGA20MX040	20MHz, Ceramic Oscillator	1
	X2	QSXG1I4915A	49MHz, Quartz Oscillator	1
		COMPONENT COMBINATIONS		
	Z1, 2	EXBS8V101J	100Ω×4	2
	Z3	EXBV8V101J	100Ω×4	1
	Z5	EXBV8V102J	1kΩ×4	1
	Z6~13, 16	EXBV8V221J	220Ω×4	9
	Z18	EXBV8V101J	100Ω×4	1
	Z19~28	EXBV8V221J	220Ω×4	10
	Z29, 30	EXBV8V101J	100Ω×4	2
	Z34~37	EXBV8VR000V	0Ω×4	4
	Z43	EXBV8V103J	10kΩ×4	1
		COILS		
	L1	QLCGTJR10KA	Coil	1
	L2	QLQGT1B800MA	Coil	1
		RESISTORS		
	R1	ERJ6GEYJ224V	220kΩ	1
	R2	ERJ6GEYJ101V	100Ω	1
	R3, 4	ERJ6GEYJ471V	470Ω	2
	R5	ERJ6GEYJ101V	100Ω	1
	R6	ERJ6GEYJ471V	470Ω	1
	R8	ERJ6GEYJ221V	220Ω	1
	R9~13	ERJ6GEYJ471V	470Ω	5
	R14	ERJ6GEYJ221V	220Ω	1
	R15	ERJ6GEYJ103V	10kΩ	1
	R16	ERJ6GEYJ471V	470Ω	1
	R17	ERJ6GEYJ103V	10kΩ	1
	R18	ERJ6GEYJ222V	2.2kΩ	1
	R19	ERJ6GEYJ102V	1kΩ	1
	R20	ERJ6GEYJ334V	330kΩ	1

Ref. No.	Part No.	Description	P/S
R21~23	ERJ6GEYJ103V	10kΩ	3
R24	ERJ6GEYJ102V	1kΩ	1
R26	ERJ6GEYJ102V	1kΩ	1
R27	ERJ6GEYJ681V	680Ω	1
R28	ERJ6GEYJ221V	220Ω	1
R29	ERJ6GEYJ223V	22kΩ	1
R30	ERJ6GEYJ223V	22kΩ	1
R31	ERJ6GEYJ223V	22kΩ	1
R32	ERJ6GEYJ221V	220Ω	1
R33	ERJ6GEYJ102V	1kΩ	1
R34~36	ERJ6GEYJ221V	220Ω	3
R37	ERJ6GEYJ151V	150Ω	1
R38, 39	ERJ6GEY0R00V	0Ω	2
R40	ERJ6GEYJ103V	10kΩ	1
R43, 44	ERJ6GEYJ223V	22kΩ	2
R45	ERJ6GEYJ151V	150Ω	1
R50, 52	ERJ6GEY0R00V	0Ω	2
R53	ERJ6GEYJ103V	10kΩ	1
R54	ERJ6GEYJ471V	470Ω	1
R55	ERJ6GEYJ221V	220Ω	1
R56	ERJ6GEYJ102V	1kΩ	1
R57	ERJ6GEYJ331V	330Ω	1
R58	ERJ6GEYJ221V	220Ω	1
R59	ERJ6GEYJ471V	470Ω	1
R60	ERJ6GEYJ103V	10kΩ	1
R65	ERJ6GEY0R00V	0Ω	1
R67	ERJ6GEYJ103V	10kΩ	1
R68	ERJ6GEYJ102V	1kΩ	1
R71	ERJ6GEYJ101V	100Ω	1
R73	ERJ6GEYJ103V	10kΩ	1
R75	ERJ6GEYJ102V	1kΩ	1
R76	ERJ6GEYJ681V	680Ω	1
R77	ERJ6GEYJ102V	1kΩ	1
R78	ERJ6GEY0R00V	0Ω	1
R79	ERJ6GEYJ104V	100kΩ	1
R80, 81	ERJ6GEYJ221V	220Ω	2
R85	ERJ6GEYJ101V	100Ω	1
R87, 91, 92, 94	ERJ6GEYJ332V	3.3kΩ	4
R95, 98	ERJ6GEYJ223V	22kΩ	2
R100	ERJ6GEYJ104V	100kΩ	1
R103	ERJ6GEYJ331V	330Ω	1
R105	ERJ6GEYJ471V	470Ω	1
R112	ERJ6GEYJ103V	10kΩ	1
R121~123	ERJ6GEY0R00V	0Ω	3
R126	ERJ6GEYJ103V	10kΩ	1
R128	ERJ6GEY0R00V	0Ω	1
CAPACITORS			
C1, 3	ECUV1H104ZFX	0.1μF	2
C4	ECUV1H100DCN	10pF	1
C5	ECQV1H104JM	0.1μF	1
C7	ECRF1H104ZF	0.1μF	1
C8	ECUV1H104ZFX	0.1μF	1
C9, 10	ECUV1H100DCN	10pF	2
C11	ECUV1H104ZFX	0.1μF	1
C12	ECEA0JU102	1000μF, 6.3V	1
C14	ECUV1H104ZFX	0.1μF	1
C15	ECRF1H104ZF	0.1μF	1
C16	FM0H473Z	0.04μF, 5.5V	1
C18, 19	ECUV1H104ZFX	0.1μF	2
C21, 24~26, 29	ECUV1H104ZFX	0.1μF	5
C33	ECEA1VU470	47μF, 35V	1
C34	ECRF1H104ZF	0.1μF	1
C35, 36	ECUV1H104ZFX	0.1μF	2
C37	ECUV1H101JG	100pF	1
C38	ECUV1H104ZFX	0.1μF	1
C39	ECUV1H101JG	100pF	1

Ref. No.	Part No.	Description	P/S
C40, 41	ECUV1H104ZFX	0.1μF	2
C42	ECRF1H104ZF	0.1μF	1
C43~47	ECUV1H104ZFX	0.1μF	5
C48	ECRF1H104ZF	0.1μF	1
C51, 52	ECUV1H104ZFX	0.1μF	2
C53	ECUV1H331JG	330pF	1
C54	ECQB1H103JF	0.01μF	1
C56, 57	ECUV1H104ZFX	0.1μF	2
C58	ECUV1H331JG	330pF	1
C59, 60, 62~64	ECUV1H104ZFX	0.1μF	5
C65	ECUV1H102JX	0.001μF	1
C66~79	ECUV1H104ZFX	0.1μF	14
C81	ECQV1H104JM	0.1μF	1
C84, 86	ECUV1H104ZFX	0.1μF	2
C88	ECEA1CKN100	10μF, 16V	1
C89	ECUV1H104ZFX	0.1μF	1
C90	ECEA1CKN100	10μF, 16V	1
C91	ECUV1H101JG	100pF	1
C92	ECQB1H103JF	0.01μF	1
C93	ECUV1H104ZFX	0.1μF	1
C94	ECRF1H104ZF	0.1μF	1
C95, 97, 99, 100	ECUV1H104ZFX	0.1μF	4
C101	ECUV1H101JG	100pF	1
C102~104	ECUV1H104ZFX	0.1μF	3
C105	ECUV1H100DCN	10pF	1
C106, 107, 109	ECUV1H104ZFX	0.1μF	3

FJASP FILTER, JACK, AMP, POWER SUPPLY CIRCUIT

Ref. No.	Part No.	Description	P/S
INTEGRATED CIRCUITS			
IC1	M5F78M15L	+15V Voltage Regulator	1
IC2	M5F79M15L	−15V Voltage Regulator	1
IC3~8, 10, 11	M5218AL	Operational Amplifier	8
IC12	QCPL-260L	Photo Coupler	1
TRANSISTORS			
S Q1, 2	2SC1815GR	Transistor	2
S Q3	2SA1015-GR	2SA933STRS (SUB.Part)	1
S Q4	2SC1815GR	Transistor	1
S Q5, 6	2SA1015-GR	2SA933STRS (SUB.Part)	2
○ Q7	2SD592ARS	Transistor	1
○ Q8	2SB621ARS	Transistor	1
○ Q9	2SD592ARS	Transistor	1
○ Q10	2SB621ARS	Transistor	1
S Q11	2SC1815GR	Transistor	1
S Q12	2SA1015-GR	2SA933STRS (SUB.Part)	1
S Q13	2SC1815GR	Transistor	1
S Q14	2SA1015-GR	2SA933STRS (SUB.Part)	1
Q15	2SB946P	Transistor	1
Q16	2SD1271P	Transistor	1
Q17	2SB946P	Transistor	1
Q18	2SD1271P	Transistor	1
S Q19, 20	2SA1015-GR	2SA933STRS (SUB.Part)	2
DIODES			
D1, 2 ⚠	SVDGERA1502	Rectifier	2
D3~10 ⚠	SVDS3V20	Rectifier	8
D11, 12	MA4180	Zener, 18V	2
D13, 14	EK04	Diode	2
D15~18	MA165	Diode	4

Ref. No.	Part No.	Description	P/S
D19, 20	MA167	Diode	2
D21~24	MA165	Diode	4
D25, 26	MA167	Diode	2
D27~32	MA165	Diode	6
COILS & LINE FILTER			
⚠ L1	SLTGLF3	Line Filter	1
L2, 3, 5~7	QLQGT3T150SA	Coil	5
JACKS			
JK1	QJSG007AA	PEDAL IN	1
○ JK2	QJSG016AA	MIDI IN	1
○ JK3	QJSG016AA	MIDI OUT	1
○ JK4	QJSG016AA	MIDI THRU	1
JK5	QJJG003AA	AUX IN L	1
JK6	QJJG003AA	AUX IN R	1
JK7	QJJG003AA	LINE OUT L	1
JK8	QJJG003AA	LINE OUT R	1
⚠ JK9	SJVD0203B	AC Inlet	1
SWITCH			
⚠ S1	SSRG100A	Voltage Selector, X XR XS XD XT	1
FUSES			
⚠ F1	XBA1C63NU100	6.3A, 125V, M MC XM	1
⚠ F1, 2	XBA2C31TB0	T3.15A, 250V, X XS XD XT XR	2
⚠ F3~5	XBA2C20TB0	T2A, 250V, EN EK EZ EW EF EA EH EP XP X XR XS XD XT XL	3
⚠ F4, 5	XBA1C25NU100	2.5A, 125V, M MC XM	2
RESISTORS			
R1, 2	ERDS2TJ103	10kΩ	2
⚠ R3~5	ERD2FCVJ6R8	6.8Ω, 1/4W, Fuse Type	3
R6	ERDS2TJ472	4.7kΩ	1
R7, 8	ERDS2TJ473	47kΩ	2
R9	ERDS2TJ103	10kΩ	1
R10	ERDS2TJ332	3.3kΩ	1
R11	ERDS2TJ472	4.7kΩ	1
R12~14	ERDS2TJ103	10kΩ	3
R15	ERDS2TJ472	4.7kΩ	1
R16, 17	ERDS2TJ152	1.5kΩ	2
R18, 19	ERDS2TJ334	330kΩ	2
R20	ERDS2TJ222	2.2kΩ	1
R21	ERDS2TJ220	22Ω	1
⚠ R22	ERD2FCVJ4R7	4.7Ω, 1/4W, Fuse Type	1
⚠ R23	ERD2FCVG220	22Ω, 1/4W, Fuse Type	1
R24, 25	ERDS2TJ334	330kΩ	2
R26	ERDS2TJ222	2.2kΩ	1
R27	ERDS2TJ220	22Ω	1
⚠ R28	ERD2FCVJ4R7	4.7Ω, 1/4W, Fuse Type	1
⚠ R29	ERD2FCVG220	22Ω, 1/4W, Fuse Type	1
R30	ERDS2TJ332	3.3kΩ	1
R31, 32	ERDS2TJ223	22kΩ	2
R33	ERDS2TJ563	56kΩ	1
R34	ERDS2TJ682	6.8kΩ	1
R35	ERDS2TJ332	3.3kΩ	1
R36, 37	ERDS2TJ223	22kΩ	2
R38	ERDS2TJ563	56kΩ	1
R39	ERDS2TJ682	6.8kΩ	1

Ref. No.	Part No.	Description	P/S
R40	ERDS2TJ152	1.5kΩ	1
R41	ERDS2TJ271	270Ω	1
R42	ERDS2TJ154	150kΩ	1
R43	ERDS2TJ122	1.2kΩ	1
R44	ERDS2TJ274	270kΩ	1
R45	ERDS2TJ331	330Ω	1
R46	ERDS2TJ104	100kΩ	1
R47	ERDS2TJ122	1.2kΩ	1
R48	ERDS2TJ683	68kΩ	1
R51	ERDS2TJ471	470Ω	1
R52	ERDS2TJ184	180kΩ	1
R53	ERDS2TJ152	1.5kΩ	1
R54	ERDS2TJ122	1.2kΩ	1
R55	ERDS2TJ274	270kΩ	1
R56	ERDS2TJ271	270Ω	1
R57	ERDS2TJ154	150kΩ	1
R58	ERDS2TJ122	1.2kΩ	1
R59	ERDS2TJ683	68kΩ	1
R60	ERDS2TJ331	330Ω	1
R61	ERDS2TJ104	100kΩ	1
R64	ERDS2TJ471	470Ω	1
R65	ERDS2TJ184	180kΩ	1
R66	ERDS2TJ103	10kΩ	1
R68	ERDS2TJ102	1kΩ	1
R69	ERDS2TJ272	2.7kΩ	1
R70	ERDS2TJ102	1kΩ	1
R71	ERDS2TJ103	10kΩ	1
R72	ERDS2TJ102	1kΩ	1
R73	ERDS2TJ272	2.7kΩ	1
⚠ R74	ERD2FCVG101	100Ω, 1/4W, Fuse Type	1
R75	ERDS2TJ154	150kΩ	1
R76~78	ERDS2TJ331	330Ω	3
⚠ R79	ERD2FCVG101	100Ω, 1/4W, Fuse Type	1
⚠ R80	ERD2FCVJ4R7	4.7Ω, 1/4W, Fuse Type	1
R82	ERDS2TJ103	10kΩ	1
R84	ERDS2TJ102	1kΩ	1
R85	ERDS2TJ272	2.7kΩ	1
R86	ERDS2TJ102	1kΩ	1
R87	ERDS2TJ103	10kΩ	1
R88	ERDS2TJ102	1kΩ	1
R89	ERDS2TJ272	2.7kΩ	1
⚠ R90	ERD2FCVG101	100Ω, 1/4W, Fuse Type	1
R91~93	ERDS2TJ331	330Ω	3
⚠ R94	ERD2FCVG101	100Ω, 1/4W, Fuse Type	1
⚠ R95	ERD2FCVJ4R7	4.7Ω, 1/4W, Fuse Type	1
R99, 100	ERDS2TJ681	680Ω	2
R101~104	ERDS2TJ102	1kΩ	4
R105	ERDS2TJ473	47kΩ	1
R106	ERDS2TJ102	1kΩ	1
R107, 108	ERDS2TJ680	68Ω	2
R109	ERDS2TJ104	100kΩ	1
R110	ERDS2TJ151	150Ω	1
R111	ERDS2TJ330	33Ω	1
R112	ERDS2TJ104	100kΩ	1
R113	ERDS2TJ221	220Ω	1
R114	ERDS2TJ331	330Ω	1
⚠ R115, 116	ERQ14AJ2R0	2Ω, 1/4W, Fuse Type	2
R117	ERDS2TJ154	150kΩ	1
R118~120	ERDS2TJ471	470Ω	3
CAPACITORS			
⚠ C1	ECKCVA1472MF	4700pF, Line Capacitor	1
⚠ C2	ECQU2A104MT	0.1μF, 250V, Across the Line Capacitor	1
⚠ C3	ECQE1A104M6	0.1μF, 125V	1
C4, 5	ECA1VM472	4700μF, 35V	2
C6, 7	ECEA1VU332	3300μF, 35V	2

Ref. No.	Part No.	Description	P/S
C8, 9	ECRF1H104ZF	0.1μF	2
C10	ECEA1CKA100	10μF, 16V	1
C11	ECEA1CU331	330μF, 16V	1
C12	ECEA1CKN100	10μF, 16V	1
C13	ECCR1H221J	220pF	1
C14	ECEA1CKN100	10μF, 16V	1
C15	ECCR1H221J	220pF	1
C17	ECQV1H334JM	0.33μF	1
C18	ECQG1H222KZ	0.0022μF	1
C19	ECQV1H474JM	0.47μF	1
C20	ECQB1H103JF	0.01μF	1
C21	ECQB1H333JF	0.033μF	1
C22	ECQG1H332KZ	0.0033μF	1
C23	ECQV1H104JM	0.1μF	1
C24	ECQB1H153JF	0.015μF	1
C27	ECQG1H682KZ	0.0068μF	1
C28	ECQG1H102KZ	0.001μF	1
C30	ECQV1H474JM	0.47μF	1
C31	ECQB1H103JF	0.01μF	1
C32	ECQV1H334JM	0.33μF	1
C33	ECQG1H222KZ	0.0022μF	1
C34	ECQV1H104JM	0.1μF	1
C35	ECQB1H153JF	0.015μF	1
C36	ECQB1H333JF	0.033μF	1
C37	ECQG1H332KZ	0.0033μF	1
C40	ECQG1H682KZ	0.0068μF	1
C41	ECQG1H102KZ	0.001μF	1
C42, 43	ECCR1H100D	10pF	2
C44	ECQV1H474JM	0.47μF	1
C45	ECQB1H223JF	0.022μF	1
C46	ECQV1H104JM	0.1μF	1
C47	ECEA50Y2R2	2.2μF, 50V	1
C48	ECEA50Y10	10μF, 50V	1
C49	ECQV1H474JM	0.47μF	1
C50	ECQB1H223JF	0.022μF	1
C51	ECQV1H104JM	0.1μF	1
C52	ECEA50Y2R2	2.2μF, 50V	1
C53	ECEA50Y10	10μF, 50V	1
C54, 55	ECBA1C222MR	0.0022μF	2
C56, 57	ECRF1H104ZF	0.1μF	2
C58, 59	ECBA1C222MR	0.0022μF	2
C60~63	ECRF1H104ZF	0.1μF	4
C64, 65	ECCR1H221J	220pF	2
C66	ECKR1E473ZV	0.047μF	1
C67	ECEA1HK010	1μF, 50V	1
C73	ECRF1H104ZF	0.1μF	1

NW NETWORK CIRCUIT

Ref. No.	Part No.	Description	P/S
COIL			
L1	QLCGTKR33KA	0.33mH, Network	1
CAPACITOR			
C1	ECEA50Y8R2	8.2μF, 50V	1

HP HEADPHONES CIRCUIT

Ref. No.	Part No.	Description	P/S
DIODE			
D1	SEL4214RLC05	LED, Power Indicator	1
COIL			
L1	QLQGT3T150SA	Coil	1
JACKS			
JK1	SJJG100A	HEAD PHONE 1	1
JK2	SJJG100A	HEAD PHONE 2	1
RESISTORS			
R1~4	ERG1SJ680	68Ω, 1W, Flame-Ploof	4
CAPACITORS			
C1, 2	ECKR1E473ZV	0.047μF	2
C3	ECRF1H104ZF	0.1μF	1

CP CONTROL PANEL CIRCUIT

Ref. No.	Part No.	Description	P/S
INTEGRATED CIRCUITS			
IC1	M37471M2196S	16 bit Microcomputer	1
IC2, 3	HD74LS07P	Hex Buffers	2
TRANSISTORS			
Q1~5	2SA830SB	Transistor	5
S Q6	2SA1015-GR	2SA933STRS (SUB. Part)	1
DIODES			
D1~22, 26~30	MA165	Diode	27
D103~105, 109~111, 115, 116, 120, 121, 125, 126, 136~152	LN282R	LED (Red)	29
DISPLAY			
LD50	LB603VF	Triple 8 Segments Display	1
OSCILLATORS			
X1	QSXG2F0400DA	4MHz Ceramic Oscillator	1
SWITCHES			
S1~22, 26~30	EVQ21507K	Push Switch	27
IC PROTECTOR			
IP1 ⚠	ICP-N10T104	IC Protector	1
VARIABLE RESISTOR			
VR1	QRVG25P01B53	5kΩ B, Main Volume	1

Ref. No.	Part No.	Description	P/S
RESISTORS			
R2	ERDS2TJ101	100Ω	1
R3	ERDS2T0	0Ω, 1/4W	1
R4, 5	ERDS2TJ103	10kΩ	2
R6	ERDS2TJ471	470Ω	1
R7, 8	ERDS2TJ221	220Ω	2
R9	ERDS2TJ471	470Ω	1
R10~14	ERDS2TJ103	10kΩ	5
R15	ERDS2TJ152	1.5kΩ	1
R16~26	ERDS2TJ101	100Ω	11
R27~35	ERDS2TJ103	10kΩ	9
R36	ERDS2TJ101	100Ω	1
R38	ERDS2T0	0Ω, 1/4W	1
CAPACITORS			
C1	ECRF1H104ZF	0.1μF	1
C3	ECEA0JKA470	47μF, 6.3V	1
C4, 5	ECBA1H100J	10pF	2
C6	ECBA1E223ZF	0.022μF	1
C7	ECEA0JKA101	100μF, 6.3V	1
C8, 11	ECRF1H104ZF	0.1μF	2

PKB PEDAL KEYBOARD CIRCUIT

	Ref. No.	Part No.	Description	P/S
	TRANSISTORS			
S	Q1, 2	2SC1815GR	Transistor	2
S	Q3	2SA1015-GR	2SA933STRS (SUB. Part)	1
	DIODE			
	D1	GP2S24BC	Photointerrupter	1
	SWITCHES			
	S1, 2	QSTGT001AA	Lever Switch	2
	VARIABLE RESISTOR			
○	VR1	EVND8AA03B52	500Ω	1
	RESISTORS			
	R1	ERDS2TJ181	180Ω	1
	R2	ERDS2TJ224	220kΩ	1
	R3	ERDS2TJ333	33kΩ	1
	R4	ERDS2TJ683	68kΩ	1
	R5	ERDS2TJ124	120kΩ	1
	R6	ERDS2TJ224	220kΩ	1
	R7	ERDS2TJ124	120kΩ	1
	R8~10	ERDS2TJ472	4.7kΩ	3
	R12	ERDS2TJ391	390Ω	1
	R13	ERTD2ZGK102	1kΩ	1
	R14	ERDS2TJ222	2.2kΩ	1
	CAPACITORS			
	C1, 2	ECRF1H104ZF	0.1μF	2
	C3	ECQB1H153JF	0.015μF	1

MKB1 MANUAL KEYBOARD 1 CIRCUIT

Ref. No.	Part No.	Description	P/S
INTEGRATED CIRCUITS			
IC1	MSM7U042016	Gate Array	1
IC2	ST93C46CB1	1M bit Programmed EEPROM	1
DIODES			
D1~88	MA165	Diode	88
OSCILLATOR			
X1	SVQGA20MX040	20MHz, Ceramic Oscillator	1
RESISTORS			
R1~3	ERDS2TJ472	4.7kΩ	3
CAPACITORS			
C1	ECRF1H104ZF	0.1μF	1
C2	ECCW1H471J5	470pF	1
C3, 4	ECCW1H220J5	22pF	2
C5	ECKR1E473ZV	0.047μF	1
C6, 7	ECCW1H101J5	100pF	2

MKB2 MANUAL KEYBOARD 2 CIRCUIT

Ref. No.	Part No.	Description	P/S
DIODES			
D89~176	MA165	Diode	88
COMPONENT COMBINATION			
Z1	EXBPI8332JM	3.3kΩ×8	1

■ WIRING PARTS

	Ref. No.	Part No.	Description	P/S
○	W1	QEUGS7H13CZ	Connector with Wire	1
○	W2	QEUGSCH13CZ	Connector with Wire	1
○	W3	QEXGVH05075B	Connector with Wire	1
○	W4	QEXGVH06060B	Connector with Wire	1
	W5	QEXGVH03105B	Connector with Wire	1
○	W6	QEXGST12020B	Connector with Wire	1
	W7	QEXGSS16065A	Connector with Wire	1
	W8	QEXGSS06075A	Connector with Wire	1
	W9	QJLG007AA	Pedal Cord	1

REPLACEMENT PARTS LIST.....Cabinet and Chassis Parts

Notes:

1. The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retension period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
   After the end of this period, the assembly will no longer be available.
2. ○ mark are new parts.
   Cabinet Colour
   • SX-PX207.....Black • SX-PX207M.....Walnat
3. Important safety notice
   Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
4. For part No. with area mark, check the area when placing an order.
5. The raw material indication for synthtic resin
   In order to facilitate classification of parts of synthetic resin manufacture and to promote the recycling of natural resources, a raw material symbol for such parts is indicated in the Ref. No./Material column.

SX-PX207 CABINET & CHASSIS PARTS

Ref. No.		Part No.	Description	P/S
		SWITCH		
	S1 ⚠	ESB823V	Power Switch	1
		SPEAKERS		
	SP1, 2	EAS14PL93A	14cm, 6Ω	2
	SP3, 4	SASG12PL03-F	12cm, 8Ω	2
	SP5, 6	EAS65PH31A3	6.5cm, 8Ω	2
		TRANSFORMER		
	T1 ⚠	QTPG1N017A	Power Transformer, EN EK EZ EW EF EA EH EP X XL XR XS XD XT XP	1
	T1 ⚠	QTPG1N014A	Power Transformer, M MC XM	1
		POWER CORD & PLUG		
	PC1 ⚠	SJAG65	Power Cord, EN EZ EW EF EA EH EP X XS XT XP	1
	PC1 ⚠	QJAG013AA	Power Cord, M MC XM	1
	PC1 ⚠	QJAG014AA	Power Cord, XR XL	1
	PC1 ⚠	VJA0733	Power Cord, EK XD	1
	PC2 ⚠	SJP5213-1	Attachment Plug, X XT	1
		CABINET PARTS		
○	1	QGPG0107AA	Speaker Net	1
	1-1	SGBG160B	Badge	1
○	2	QGPG0106AA	LED Panel	1
	3	SBNG7050A	Knob	1
○	4	QGPG0101BA	Control Panel	1
	5	QMFG1107AA	Felt (Red)	1
○	6	QGUG1413BAK	Button	1
○	7	QGUG1409AAK	Button	1
○	8	QGUG1412AAK	Button	1
○	9	QGUG1410AAK	Button	1
○	10	QMCG004AA	Spacer	6
	11	QMFG9012AA	Sound Absorbing Material	2
○	13	QKQGH043BAK	Speaker Net	1
○	14 ABS	QKSGZ008AA	Spacer	2
○	15 PS	QKSGG018AA	Keyboard Cover Guide, Left	1
○	16 PS	QKSGG019AA	Keyboard Cover Guide, Right	1

SX-PX207M CABINET & CHASSIS PARTS

Ref. No.		Part No.	Description	P/S
		SWITCH		
	S1 ⚠	ESB823V	Power Switch	1
		SPEAKERS		
	SP1, 2	EAS14PL93A	14cm, 6Ω	2
	SP3, 4	SASG12PL03-F	12cm, 8Ω	2
	SP5, 6	EAS65PH31A3	6.5cm, 8Ω	2
		TRANSFORMER		
	T1 ⚠	QTPG1N017A	Power Transformer, EN EK EZ EW EF EA EH EP X XL XR XS XD XT XP	1
	T1 ⚠	QTPG1N014A	Power Transformer, M MC XM	1
		POWER CORD & PLUG		
	PC1 ⚠	SJAG65	Power Cord, EN EZ EW EF EA EH EP X XS XT XP	1
	PC1 ⚠	QJAG013AA	Power Cord, M MC XM	1
	PC1 ⚠	QJAG014AA	Power Cord, XR XL	1
	PC1 ⚠	VJA0733	Power Cord, EK XD	1
	PC2 ⚠	SJP5213-1	Attachment Plug, X XT	1
		CABINET PARTS		
○	1	QGPG0107AA	Speaker Net	1
	1-1	SGBG160B	Badge	1
○	2	QGPG0106AA	LED Panel	1
	3	SBNG7050A	Knob	1
○	4	QGPG0101BA	Control Panel	1
	5	QMFG1107AA	Felt (Red)	1
○	6	QGUG1413BAK	Button	1
○	7	QGUG1409AAK	Button	1
○	8	QGUG1412AAK	Button	1
○	9	QGUG1410AAK	Button	1
○	10	QMCG004AA	Spacer	6
	11	QMFG9012AA	Sound Absorbing Material	2
○	13	QKQGH043BBK	Speaker Net	1
○	14 ABS	QKSGZ008AB	Spacer	2
○	15 PS	QKSGG018AA	Keyboard Cover Guide, Left	1
○	16 PS	QKSGG019AA	Keyboard Cover Guide, Right	1

SX-PX207

Ref. No.		Part No.	Description	P/S
17	⚠ PS	SJS9231A	AC Inlet Cover, XS XD XT EN EK EZ X EW EF EA EH EP XP	1
17	⚠ PS	SJS9334A	AC Inlet Cover, M MC XM XL XR	1
○ 18		QGAG1024AC	Music Stand	1
19		SBLG7-2	Stay	1
20		SBHG5003-2	Hinge	2
○ 21		QKQGA098AA	Top Cover	1
○ 21-1		⎧QGKG0109AB	Ornament	1
○ 23		QKQGF021AA	Keyboard Cover Ass'y	1
○ 23-1		⎧QMRG7069AA	Holder	2
23-2		⎪QMRG7056AA	Holder	1
23-3		⎪QMRG7031CC	Protector	1
○ 23-4		⎪QGKG0122AA	Ornament	1
23-5		⎪QMRG7032CC	Protector	1
23-6		⎩QXQG007AA	Axletree	1
○ 24		QXAG002AA	Lever, Left	1
○ 25		QMRG7068AA	Holder	2
○ 26		QMBG011BA	Spring, Left	1
○ 27		QXAG002BA	Lever, Right	1
○ 28		QMBG011AA	Spring, Right	1
29		QMBG009AA	Spring	3
30		QMFG1133AA	Felt	3
31		QMWG4002AA	Pedal Arm	3
31-1		⎧QMFG1134AA	Felt	3
31-2		⎩QMFG1135AA	Felt	3
32		QKAG0011AA	Foot	1
○ 33		QMFG1083AB	Felt	1
○ 34		QGUG1408AAK	Button	1
○ 35		QGUG1411AAK	Button	1
STAND				
○ 44		QKQGB378AA	Left Plank Ass'y	1
44-1		⎧SHRG2130B	Foot	2
44-2		⎩QKSGB006AA	Leg, Left	1
○ 45		QKQGB379AA	Right Plank Ass'y	1
45-1		⎧SHRG2130B	Foot	2
45-2		⎩QKSGB007AA	Leg, Right	1
○ 46		QKQGD074AA	Crossboard	1
○ 47		QKQGM066AA	Pedal Box Ass'y	1
47-1		⎧QGKG0113AA	Ornament	3
48		SHRG9620A	Cord Clamper	3
49		SHRG1230A	Cord Clamper	1
MANUAL KEYBOARD				
50	AS	QMWG2001AA	Black Key	36
51	AS	QMWG1001AA	White Key (First Octave A Key)	1
52	AS	QMWG1002AA	White Key (B Key)	8
53	AS	QMWG1003AA	White Key (C Key)	7
54	AS	QMWG1004AA	White Key (D Key)	7
55	AS	QMWG1008AA	White Key (A Key)	7
56	AS	QMWG1007AA	White Key (G Key)	7
57	AS	QMWG1006AA	White Key (F Key)	7
58	AS	QMWG1005AA	White Key (E Key)	7
59	AS	QMWG1009AA	White Key (Top Octave C Key)	1
60		SUSG534A	Spring	88
61		QMWG8019CA	Hammer (Black Key)	36
62		SHGG9121A	Rubber Cap (Hammer)	88
63		QMWG8017DA	Hammer (White Key)	52
64	PS	QGPG0042AB	End Cover Panel, Left	1
65		QMFG1104AA	Felt	2
○ 66		QMWG9018AA	Felt	1
○ 67		QMWG9017AA	Felt	2

SX-PX207M

Ref. No.		Part No.	Description	P/S
17	⚠ PS	SJS9231A	AC Inlet Cover, XS XD XT EN EK EZ X EW EF EA EH EP XP	1
17	⚠ PS	SJS9334A	AC Inlet Cover, M MC XM XL XR	1
○ 18		QGAG1024AD	Music Stand	1
19		SBLG7	Stay	1
20		SBHG5003	Hinge	2
○ 21		QKQGA098AB	Top Cover	1
21-1		⎧QGKG0109AA	Ornament	1
○ 23		QKQGF021AB	Keyboard Cover Ass'y	1
○ 23-1		⎧QMRG7069AA	Holder	2
23-2		⎪QMRG7056AA	Holder	1
23-3		⎪QMRG7031BC	Protector	1
○ 23-4		⎪QGKG0122AB	Ornament	1
23-5		⎪QMRG7032BC	Protector	1
23-6		⎩QXQG007AA	Axletree	1
○ 24		QXAG002AA	Lever, Left	1
○ 25		QMRG7068AA	Holder	2
○ 26		QMBG011BA	Spring, Left	1
○ 27		QXAG002BA	Lever, Right	1
○ 28		QMBG011AA	Spring, Right	1
29		QMBG009AA	Spring	3
30		QMFG1133AA	Felt	3
31		QMWG4002AA	Pedal Arm	3
31-1		⎧QMFG1134AA	Felt	3
31-2		⎩QMFG1135AA	Felt	3
32		QKAG0011AA	Foot	1
○ 33		QMFG1083AA	Felt	1
○ 34		QGUG1408AAK	Button	1
○ 35		QGUG1411AAK	Button	1
STAND				
○ 44		QKQGB378AB	Left Plank Ass'y	1
44-1		⎧SHRG2130B	Foot	2
44-2		⎩QKSGB006AB	Leg, Left	1
○ 45		QKQGB379AB	Right Plank Ass'y	1
45-1		⎧SHRG2130B	Foot	2
45-2		⎩QKSGB007AB	Leg, Right	1
○ 46		QKQGD074AB	Crossboard	1
○ 47		QKQGM066AB	Pedal Box Ass'y	1
47-1		⎧QGKG0113AA	Ornament	3
48		SHRG9620A	Cord Clamper	3
49		SHRG1230A	Cord Clamper	1
MANUAL KEYBOARD				
50	AS	QMWG2001AA	Black Key	36
51	AS	QMWG1001AA	White Key (First Octave A Key)	1
52	AS	QMWG1002AA	White Key (B Key)	8
53	AS	QMWG1003AA	White Key (C Key)	7
54	AS	QMWG1004AA	White Key (D Key)	7
55	AS	QMWG1008AA	White Key (A Key)	7
56	AS	QMWG1007AA	White Key (G Key)	7
57	AS	QMWG1006AA	White Key (F Key)	7
58	AS	QMWG1005AA	White Key (E Key)	7
59	AS	QMWG1009AA	White Key (Top Octave C Key)	1
60		SUSG534A	Spring	88
61		QMWG8019CA	Hammer (Black Key)	36
62		SHGG9121A	Rubber Cap (Hammer)	88
63		QMWG8017DA	Hammer (White Key)	52
64	PS	QGPG0042AB	End Cover Panel, Left	1
65		QMFG1104AA	Felt	2
○ 66		QMWG9018AA	Felt	1
○ 67		QMWG9017AA	Felt	2

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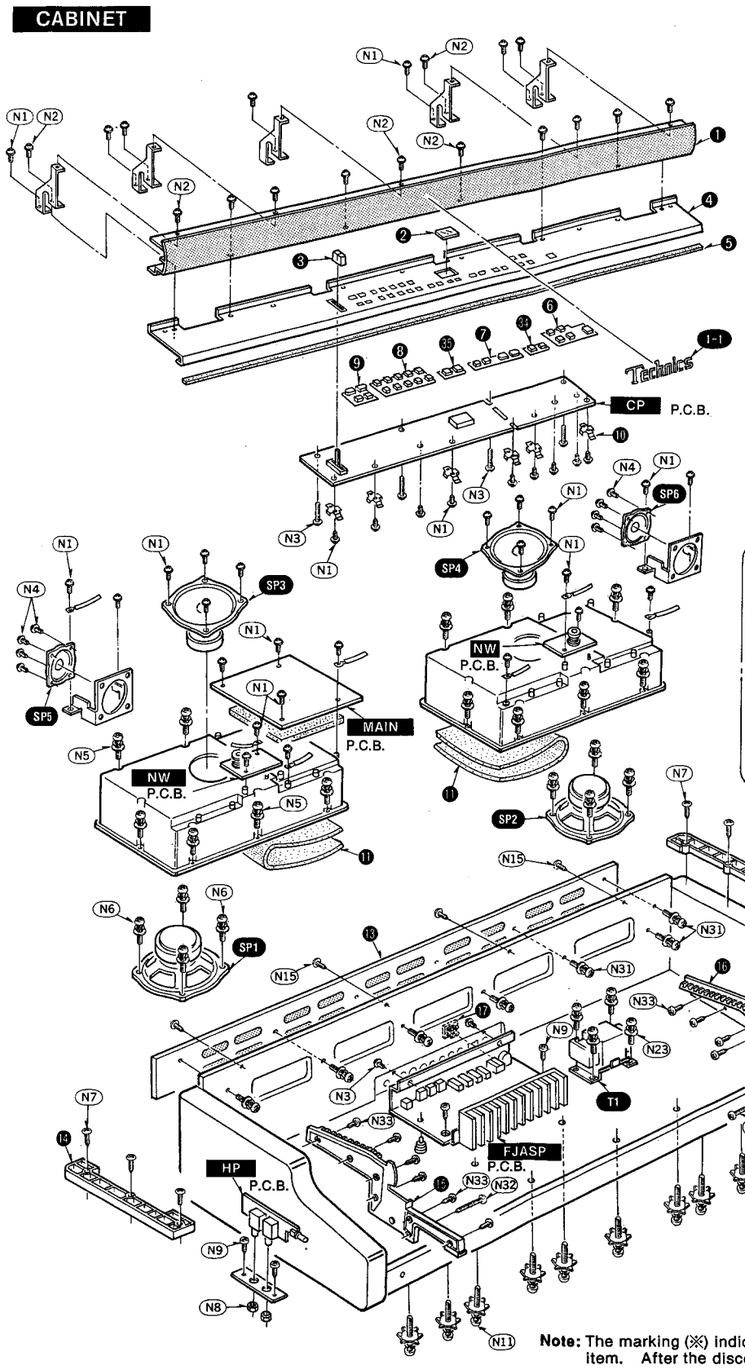
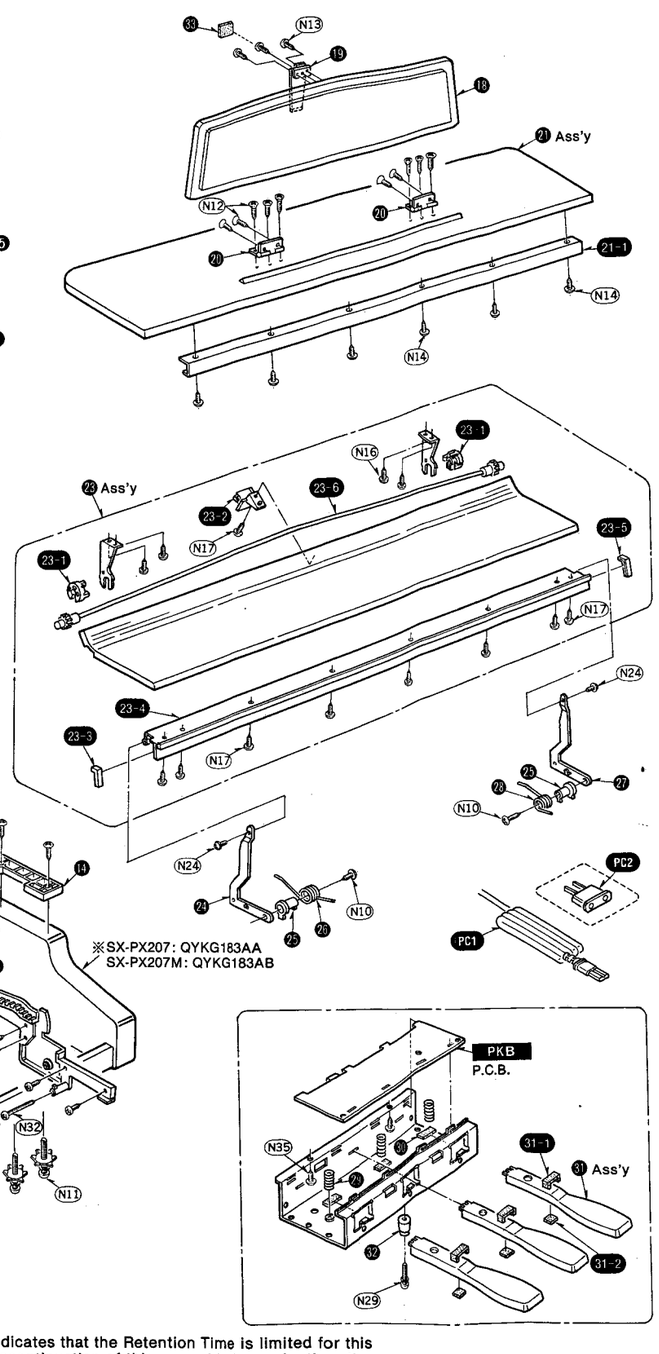
Ref. No.		Part No.	Description	P/S
68		QMWG3007AA	Chassis	1
69		QMWG3004AA	Chassis	2
70		QMWG9016AA	Roller	88
71		QMWG8023AA	Roller Holder (4 psc. on one)	1
72		QMWG8015AA	Roller Holder (12 psc. on one)	7
73		SHRGA9080A	Sponge	2
74		QMFG1073AA	Felt	2
75		SHSG3461A	Felt	1
76		QMFG1101AA	Felt	2
77		QMFG1061AA	Felt	2
78		QMFG1060AA	Felt	2
79	ABS	QMWG8022AA	Fulcurum (4 pcs. on one)	1
80	ABS	QMWG8021AA	Fulcurum (12 pcs. on one)	7
81		QGUG1040AA	Button, Power Switch	1
82	PP	SHRG8390A	Cover, Power SW.	1
83		QMWG6006AA	Rubber Switch (8 pcs. on one)	11
84		SUWG3157A	Angle	2
85		SHRG9751A	P.C.B. Holder	24
86	PS	QGPG0041BB	End Cover Panel, Right	1
○ 87		QMWG3003CA	Chassis	1
88		QMFG1086AA	Felt	2
89	PA	QMWG8024BA	Key Guide	88
SCREWS & WASHERS				
N1		XTW3+10Q	Screw	41
N2		XTW3+10JFZ	Screw	15
N3		XTW3+20TFZ	Screw	6
N4		XTW3+8J	Screw	8
N5		XYN3+F16	Screw with Washer	16
N6		XYN4+F25	Screw with Washer	8
N7		XTT4+20A	Screw	6
N8		XNS12FZ	Nut	2
N9		XTB35+12A	Screw	6
N10		XTB35+30A	Screw	2
N11		QHDG021AA	Screw with Washer	10
N12		XTS3+10AFZ	Screw	10
N13		XTB3+10AFZ	Screw	3
N14		XTT4+12A	Screw	6
N15		XTT4+30AFZ	Screw	4
N16		XTB4+10B	Screw	4
N17		XTB35+12AFZ	Screw	9
N18		XTB35+14A	Screw	1
N19		XYN4+F16FZ	Screw with Washer	9
N20		XTV3+10C	Screw	2
N21		XTB4+12A	Screw	4
N22		XTB4+16A	Screw	8
N23		XYN4+F16	Screw with Washer	4
○ N24		QHDG045AA	Screw	2
N25		XTT4+25AFZ	Screw	4
N26		XYN6+F40	Screw with Washer	4
N27		QHDG016AB	Screw with Washer	6
○ N28		XTT5+20AFZ	Screw	4
N29		XTN4+16F	Screw with Washer	1
N30		XTW3+10T	Screw	14
N31		SNEG1810B	Screw with Washer	8
N32		XTN4+50AFZ	Screw	2
N33		XTB35+16A	Screw	8
N34		XTV3+14J	Screw	37
N35		XTT4+16A	Screw	2

SX-PX207M

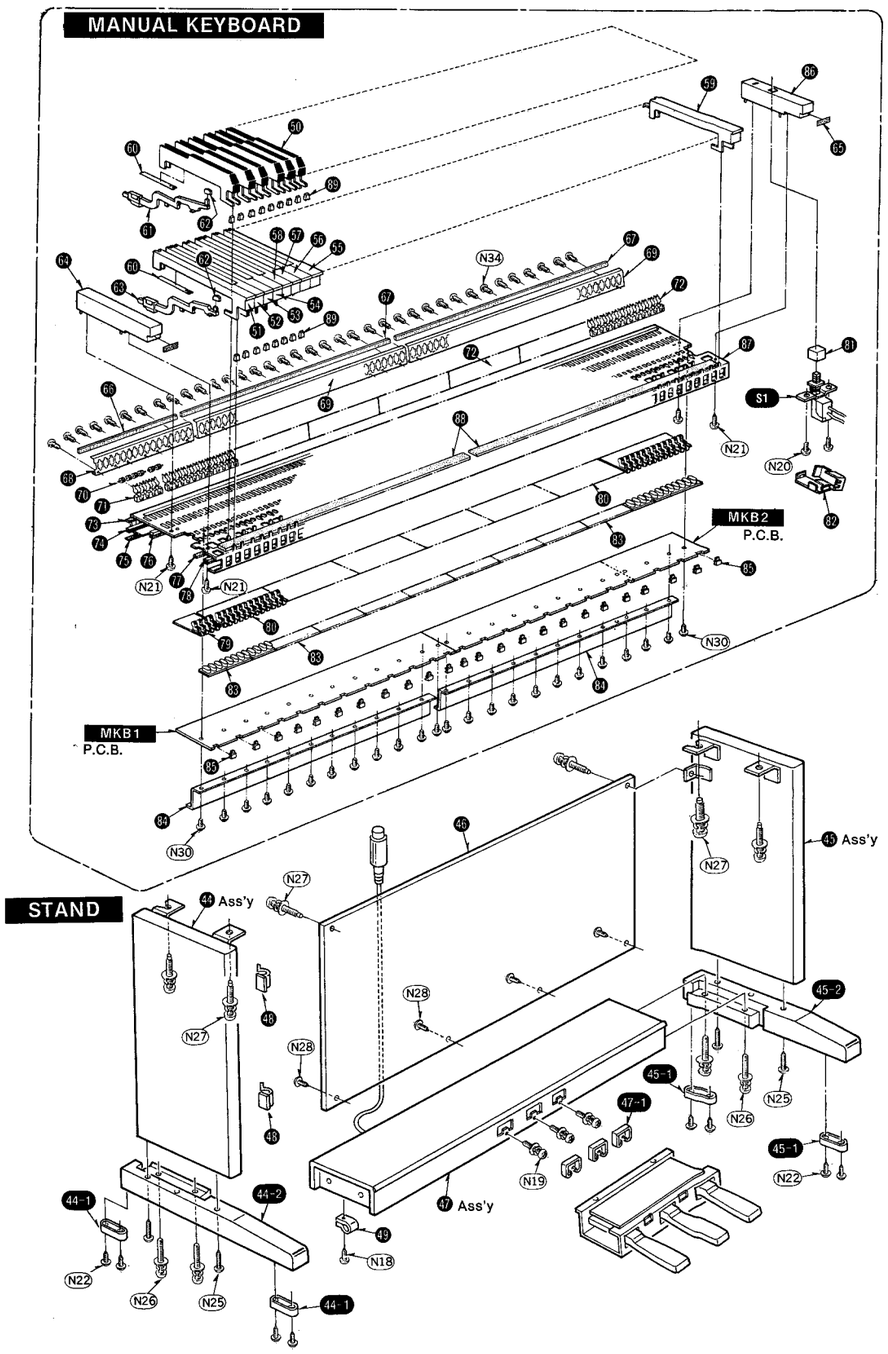
Ref. No.		Part No.	Description	P/S
68		QMWG3007AA	Chassis	1
69		QMWG3004AA	Chassis	2
70		QMWG9016AA	Roller	88
71		QMWG8023AA	Roller Holder (4 psc. on one)	1
72		QMWG8015AA	Roller Holder (12 psc. on one)	7
73		SHRGA9080A	Sponge	2
74		QMFG1073AA	Felt	2
75		SHSG3461A	Felt	1
76		QMFG1101AA	Felt	2
77		QMFG1061AA	Felt	2
78		QMFG1060AA	Felt	2
79	ABS	QMWG8022AA	Fulcurum (4 pcs.on one)	1
80	ABS	QMWG8021AA	Fulcurum (12 pcs. on one)	7
81		QGUG1040AA	Button, Power Switch	1
82	PP	SHRG8390A	Cover, Power SW.	1
83		QMWG6006AA	Rubber Switch (8 pcs. on one)	11
84		SUWG3157A	Angle	2
85		SHRG9751A	P.C.B. Holder	24
86	PS	QGPG0041BB	End Cover Panel, Right	1
○ 87		QMWG3003CA	Chassis	1
88		QMFG1086AA	Felt	2
89	PA	QMWG8024BA	Key Guide	88
SCREWS & WASHERS				
N1		XTW3+10Q	Screw	41
N2		XTW3+10JFZ	Screw	15
N3		XTW3+20TFZ	Screw	6
N4		XTW3+8J	Screw	8
N5		XYN3+F16	Screw with Washer	16
N6		XYN4+F25	Screw with Washer	8
N7		XTT4+20A	Screw	6
N8		XNS12FZ	Nut	2
N9		XTB35+12A	Screw	6
N10		XTB35+30A	Screw	2
N11		QHDG021AA	Screw with Washer	10
N12		XTS3+10AFVC	Screw	10
N13		XTB3+10AFVC	Screw	3
N14		XTT4+12A	Screw	6
N15		XTT4+30AFVC	Screw	4
N16		XTB4+10B	Screw	4
N17		XTB35+12AFZ	Screw	9
N18		XTB35+14A	Screw	1
N19		XYN4+F16FZ	Screw with Washer	9
N20		XTV3+10C	Screw	2
N21		XTB4+12A	Screw	4
N22		XTB4+16A	Screw	8
N23		XYN4+F16	Screw with Washer	4
○ N24		QHDG045AA	Screw	2
N25		XTT4+25AFZ	Screw	4
N26		XYN6+F40	Screw with Washer	4
N27		QHDG016AA	Screw with Washer	6
N28		XTT5+20AZTC	Screw	4
N29		XTN4+16F	Screw with Washer	1
N30		XTW3+10T	Screw	14
N31		SNEG1810B	Screw with Washer	8
N32		XTN4+50AFZ	Screw	2
N33		XTB35+16A	Screw	8
N34		XTV3+14J	Screw	37
N35		XTT4+16A	Screw	2

CABINET PARTS LOCATION



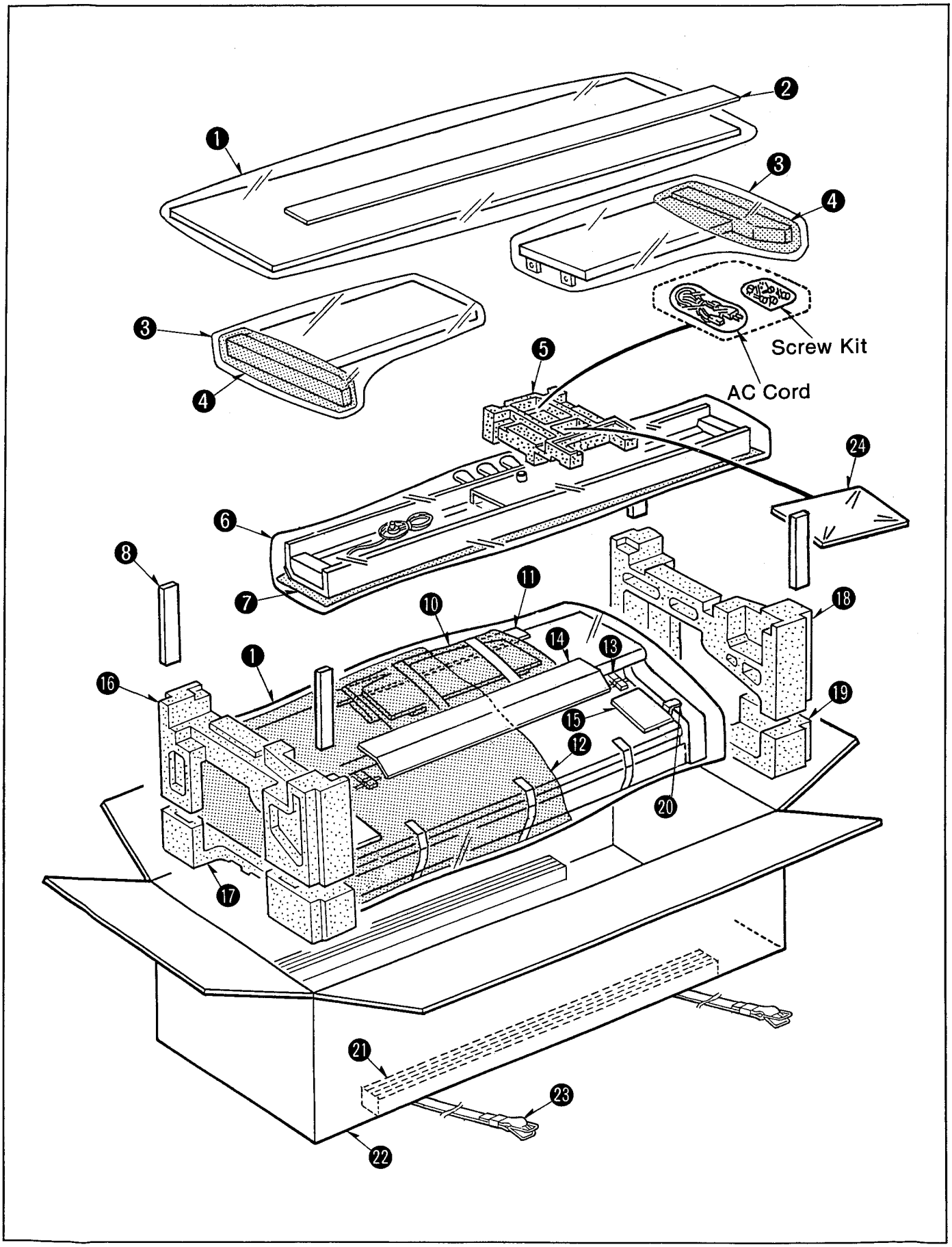


※SX-PX207: QYKG183AA
SX-PX207M: QYKG183AB



Note: The marking (※) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time.

PACKING



■ PACKING PARTS

	Ref. No.		Part No.	Description	P/S
			PACKING PARTS		
	1	PE	QPFG013AA	Polyethylene Bag	2
	2		QPNG0358AA	Top Cardboard	1
	3	PE	QPFG011AA	Polyethylene Bag	2
	4	PE	SPHG1730A	Protection Sheet	2
○	5	PS	QPNG0545AA	Pad	1
	6	PE	QPFG026AA	Polyethylene Bag	1
	7	PE	QPHG020AA	Protection Sheet	1
○	8		QPQG041AA	Prop	4
	10	PE	SPHG1490A	Protection Sheet	1
	11		QPNG0347AA	Cardboard	1
	12	PE	QPHG028AA	Protection Sheet	1
	13		SPNG5161A	Spacer	3
○	14		QPNG0546AA	Pad	1
	15		QPNG0555AA	Pad	2
○	16	PS	QPNG0551AA	Pad	1
○	17	PS	QPNG0543AA	Pad	1
○	18	PS	QPNG0552AA	Pad	1
○	19	PS	QPNG0544AA	Pad	1
	20		SJSG2090A	Felt	2
○	21		QPNG0564AA	Pad	2
○	22		QPGG0333AA	Carton, SX-PX207	1
○	22		QPGG0333AB	Carton, SX-PX207M	1
	23		SPSG40A	Band	2
			OPERATING INSTRUCTION MANUAL		
○	24		QQFGPX205AA	Operating instruction maual, EN	1
○	24-1		QQTG0385A	DANSK	1
○	24-2		QQTG0387A	ENGLISH, FRANCAIS, ESPANOL, ITALIANO, NERDERLANDS, 中文	1
○	24		QQFGPX205BA	Operating instruction maual, M	1
○	24		QQFGPX205CA	Operating instruction manual, EK MC EF EP X XL XR XS XM XD XT XP	1
○	24		QQFGPX205DA	Operating instruction manual, EZ EA	1
○	24		QQFGPX205EA	Operating instruction manual, EW EH	1
○	24-1		QQTG0387A	ENGLISH, FRANCAIS, ESPANOL, ITALIANO, NERDERLANDS, 中文	1
○	24-2		QQTG0388A	DEUTSCH	1